Peace River Area Monitoring Program

MAY 2023

Monthly Ambient Air Quality Monitoring Report

PRAMP-202305

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

June 12, 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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June 12, 2023

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

Enclosed is the May 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 May 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 May 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.
- **THC/CH4/NMHC**: The PRAMP-owned Teledyne T701H, s/n: 468, failed on May 5 following a brief power outage. A BV-supplied API T701, s/n: 80, was installed on May 7. Forty-six hours of downtime were recorded due to this event.

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.
- No major operational issues were recorded this month.

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.
- No major operational issues were recorded this month.

PRC Station

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

AQHI – Grimshaw Station

- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable, except PM2.5 and O3. One hundred sixty-four 1-hour PM2.5 exceedances, fourteen 24-hour PM2.5 exceedances and 2 1-hour O3 exceedances were recorded this month.
    - A near Alberta-wide O3 event occurred between May 20-22. Atmospheric conditions were favourable for the formation of ground-level O3 and multiple monitoring stations across the province measured exceedances of the 1-hour objective or had very high O3 concentrations.
        - Both nearby and distant wildfires contributed to intense local wildfire smoke conditions and numerous PM2.5 exceedances measured by PRAMP.

Date	Time (MST)	Parameter	Average Period	Concentration (ppb)	Wind speed (km/hr)	Wind Direction	Reference #
21-May	16	O3	1-Hour	77.4	8.2	148° (SE)	414771
21-May	17	O3	1-Hour	77.8	6.0	155° (SSE)	414771

Date	Time (MST)	Parameter	Average Period	Concentration (ug/m3)	Wind speed (km/hr)	Wind Direction	Reference #
05-May	7	PM2.5	1-Hour	83	6.9	69° (ENE)	412719
05-May	8	PM2.5	1-Hour	88	7.1	93° (E)	412719
05-May	14	PM2.5	1-Hour	86	18.1	119° (ESE)	412719
05-May	15	PM2.5	1-Hour	118	13.6	111° (ESE)	412719
05-May	16	PM2.5	1-Hour	122	9.9	114° (ESE)	412719
05-May	-	PM2.5	24-Hour	59	11.9	93° (E)	412719
06-May	5	PM2.5	1-Hour	117	8.0	91° (E)	412719
06-May	6	PM2.5	1-Hour	132	8.5	91° (E)	412719
06-May	7	PM2.5	1-Hour	254	9.3	92° (E)	412719
06-May	8	PM2.5	1-Hour	212	11.2	106° (ESE)	412719
06-May	12	PM2.5	1-Hour	172	21.9	128° (SE)	412719
06-May	13	PM2.5	1-Hour	213	21.5	125° (SE)	412719
06-May	14	PM2.5	1-Hour	143	20.8	126° (SE)	412719
06-May	16	PM2.5	1-Hour	90	20.9	130° (SE)	412719
06-May	-	PM2.5	24-Hour	82	13.6	115° (ESE)	412719
07-May	5	PM2.5	1-Hour	228	6.4	97° (E)	412719
07-May	6	PM2.5	1-Hour	289	6.7	103° (ESE)	412719
07-May	7	PM2.5	1-Hour	275	7.9	101° (E)	412719
07-May	8	PM2.5	1-Hour	399	8.6	98° (E)	412719
07-May	9	PM2.5	1-Hour	328	8.2	120° (ESE)	412719
07-May	10	PM2.5	1-Hour	245	8.7	93° (E)	412719
07-May	11	PM2.5	1-Hour	87	16.2	131° (SE)	412719
07-May	-	PM2.5	24-Hour	91	7.8	109° (ESE)	412719
09-May	9	PM2.5	1-Hour	94	2.1	256° (WSW)	413090
09-May	10	PM2.5	1-Hour	117	0.8	144° (SE)	413090
09-May	11	PM2.5	1-Hour	98	1.4	189° (S)	413090
09-May	12	PM2.5	1-Hour	90	1.7	287° (WNW)	413090
09-May	-	PM2.5	24-Hour	59	4.0	340° (NNW)	413090
10-May	-	PM2.5	24-Hour	45	5.5	40° (NE)	413090
14-May	18	PM2.5	1-Hour	103	5.0	134° (SE)	413090
14-May	19	PM2.5	1-Hour	94	1.7	100° (E)	413090
14-May	20	PM2.5	1-Hour	115	2.5	21° (NNE)	413090
21	PM2.5	1-Hour	101	3.9	11° (NNE)	413090	

Date	Time (MST)	Parameter	Average Period	Concentration (ug/m3)	Wind speed (km/hr)	Wind Direction	Reference #
14-May	22	PM2.5	1-Hour	83	3.5	28° (NNE)	413090
14-May	23	PM2.5	1-Hour	144	4.3	108° (ENE)	413090
15-May	3	PM2.5	1-Hour	356	2.5	16° (NNE)	413528
15-May	4	PM2.5	1-Hour	273	0.8	17° (NNE)	413528
15-May	5	PM2.5	1-Hour	227	1.8	7° (N)	413528
15-May	6	PM2.5	1-Hour	252	1.4	61° (ENE)	413528
15-May	7	PM2.5	1-Hour	203	6.7	162° (SSE)	413528
15-May	8	PM2.5	1-Hour	157	11.6	170° (SSE)	413528
15-May	9	PM2.5	1-Hour	183	12.0	169° (SSE)	413528
15-May	10	PM2.5	1-Hour	163	12.6	167° (SSE)	413528
15-May	11	PM2.5	1-Hour	119	13.7	170° (SSE)	413528
15-May	12	PM2.5	1-Hour	85	12.4	171° (S)	413528
15-May	13	PM2.5	1-Hour	85	11.4	183° (S)	413528
15-May	14	PM2.5	1-Hour	99	8.5	208° (SSW)	413528
15-May	15	PM2.5	1-Hour	111	7.2	235° (SW)	413528
15-May	16	PM2.5	1-Hour	183	6.0	245° (WSW)	413528
15-May	17	PM2.5	1-Hour	328	5.1	308° (NW)	413528
15-May	18	PM2.5	1-Hour	402	4.7	325° (NW)	413528
15-May	19	PM2.5	1-Hour	383	21.7	5° (N)	413528
15-May	20	PM2.5	1-Hour	243	18.8	8° (N)	413528
15-May	21	PM2.5	1-Hour	219	20.7	4° (N)	413528
15-May	22	PM2.5	1-Hour	316	19.2	359° (N)	413528
15-May	23	PM2.5	1-Hour	243	12.0	170° (S)	413528
15-May	-	PM2.5	24-Hour	220	10.4	337° (NNW)	413528
16-May	6	PM2.5	1-Hour	125	14.6	348° (NNW)	413528
16-May	7	PM2.5	1-Hour	105	12.8	350° (N)	413528
17-May	21	PM2.5	1-Hour	317	2.7	137° (SE)	413528
17-May	22	PM2.5	1-Hour	296	2.2	92° (E)	413528
17-May	23	PM2.5	1-Hour	328	6.2	45° (NNE)	413528
17-May	-	PM2.5	24-Hour	65	5.2	32° (NNE)	413528
18-May	0	PM2.5	1-Hour	356	4.8	39° (NE)	413528
18-May	1	PM2.5	1-Hour	328	2.7	25° (NNE)	413528
18-May	2	PM2.5	1-Hour	349	1.5	342° (NNW)	413528
18-May	3	PM2.5	1-Hour	393	3.0	47° (NE)	413528
18-May	4	PM2.5	1-Hour	669	4.3	71° (ENE)	413528
18-May	5	PM2.5	1-Hour	890	3.4	54° (NE)	413528
18-May	6	PM2.5	1-Hour	1043	5.1	50° (NE)	413528
18-May	7	PM2.5	1-Hour	881	3.2	81° (E)	413528
18-May	8	PM2.5	1-Hour	396	9.6	148° (SE)	413528

Date	Time (MST)	Parameter	Average Period	Concentration (ug/m3)	Wind speed (km/hr)	Wind Direction	Reference #
18-May	9	PM2.5	1-Hour	216	10.7	158° (SSE)	413528
18-May	10	PM2.5	1-Hour	192	9.7	152° (SSE)	413528
18-May	11	PM2.5	1-Hour	143	11.3	137° (SE)	413528
18-May	12	PM2.5	1-Hour	130	11.7	143° (SE)	413528
18-May	13	PM2.5	1-Hour	126	11.5	135° (SE)	413528
18-May	14	PM2.5	1-Hour	160	12.8	142° (SE)	413528
18-May	15	PM2.5	1-Hour	160	12.0	149° (SSE)	413528
18-May	16	PM2.5	1-Hour	281	8.5	128° (SE)	413528
18-May	17	PM2.5	1-Hour	595	9.2	91° (E)	413528
18-May	18	PM2.5	1-Hour	539	8.5	90° (E)	413528
18-May	19	PM2.5	1-Hour	438	5.7	131° (SE)	413528
18-May	20	PM2.5	1-Hour	244	5.5	148° (SE)	413528
18-May	21	PM2.5	1-Hour	241	1.1	117° (ESE)	413528
18-May	22	PM2.5	1-Hour	252	1.1	31° (NNE)	413528
18-May	23	PM2.5	1-Hour	221	10.7	137° (SE)	413528
18-May	-	PM2.5	24-Hour	385	6.6	99° (E)	413528
19-May	0	PM2.5	1-Hour	175	4.1	64° (ENE)	413528
19-May	1	PM2.5	1-Hour	136	3.5	87° (E)	413528
19-May	2	PM2.5	1-Hour	128	1.1	126° (SE)	413528
19-May	3	PM2.5	1-Hour	136	0.6	143° (SE)	413528
19-May	4	PM2.5	1-Hour	136	0.5	315° (NW)	413528
19-May	5	PM2.5	1-Hour	139	1.4	323° (NW)	413528
19-May	6	PM2.5	1-Hour	156	0.8	332° (NNW)	413528
19-May	7	PM2.5	1-Hour	188	5.9	188° (S)	413528
19-May	8	PM2.5	1-Hour	218	4.5	218° (SW)	413528
19-May	9	PM2.5	1-Hour	291	5.3	185° (S)	413528
19-May	10	PM2.5	1-Hour	259	7.6	198° (SSW)	413528
19-May	11	PM2.5	1-Hour	215	9.1	259° (WSW)	413528
19-May	12	PM2.5	1-Hour	171	7.6	263° (W)	413528
19-May	13	PM2.5	1-Hour	203	9.2	273° (W)	413528
19-May	14	PM2.5	1-Hour	239	10.7	295° (WNW)	413528
19-May	15	PM2.5	1-Hour	242	13.2	313° (NW)	413528
19-May	16	PM2.5	1-Hour	238	12.0	303° (WNW)	413528
19-May	17	PM2.5	1-Hour	329	9.8	358° (N)	413528
19-May	18	PM2.5	1-Hour	497	11.3	7° (N)	413528
19-May	19	PM2.5	1-Hour	434	15.6	5° (N)	413528
19-May	20	PM2.5	1-Hour	256	15.8	9° (N)	413528
19-May	21	PM2.5	1-Hour	186	14.4	8° (N)	413528

Date	Time (MST)	Parameter	Average Period	Concentration (ug/m3)	Wind speed (km/hr)	Wind Direction	Reference #
19-May	22	PM2.5	1-Hour	202	11.0	10° (N)	413528
19-May	23	PM2.5	1-Hour	203	5.3	259° (W)	413528
19-May	-	PM2.5	24-Hour	224	7.7	324° (NW)	413528
20-May	0	PM2.5	1-Hour	184	9.7	0° (N)	413528
20-May	1	PM2.5	1-Hour	150	8.6	4° (N)	413528
20-May	2	PM2.5	1-Hour	151	6.3	6° (N)	413528
20-May	3	PM2.5	1-Hour	142	7.6	6° (N)	413528
20-May	4	PM2.5	1-Hour	113	6.0	14° (NNE)	413528
20-May	5	PM2.5	1-Hour	106	4.9	17° (NNE)	413528
20-May	6	PM2.5	1-Hour	158	4.5	35° (NE)	413528
20-May	7	PM2.5	1-Hour	217	6.5	47° (NE)	413528
20-May	8	PM2.5	1-Hour	308	6.9	57° (ENE)	413528
20-May	9	PM2.5	1-Hour	418	6.8	73° (ENE)	413528
20-May	10	PM2.5	1-Hour	447	4.2	103° (ESE)	413528
20-May	11	PM2.5	1-Hour	552	4.6	86° (E)	413528
20-May	12	PM2.5	1-Hour	724	4.6	105° (ESE)	413528
20-May	13	PM2.5	1-Hour	851	4.8	120° (ESE)	413528
20-May	14	PM2.5	1-Hour	869	4.1	99° (E)	413528
20-May	15	PM2.5	1-Hour	1045	4.8	93° (E)	413528
20-May	16	PM2.5	1-Hour	1335	5.8	84° (E)	413528
20-May	17	PM2.5	1-Hour	919	5.3	86° (E)	413528
20-May	18	PM2.5	1-Hour	661	6.3	69° (ENE)	413528
20-May	19	PM2.5	1-Hour	778	3.1	96° (E)	413528
20-May	20	PM2.5	1-Hour	769	2.6	91° (E)	413528
20-May	21	PM2.5	1-Hour	798	3.3	150° (SSE)	413528
20-May	22	PM2.5	1-Hour	665	6.3	198° (SSW)	413528
20-May	23	PM2.5	1-Hour	549	6.8	86° (ESE)	413528
20-May	-	PM2.5	24-Hour	538	5.5	68° (ENE)	413528
21-May	0	PM2.5	1-Hour	443	2.7	60° (ENE)	413528
21-May	1	PM2.5	1-Hour	458	2.9	181° (S)	413528
21-May	2	PM2.5	1-Hour	415	1.4	359° (N)	413528
21-May	3	PM2.5	1-Hour	390	4.4	1° (N)	413528
21-May	4	PM2.5	1-Hour	351	3.8	341° (NNW)	413528
21-May	5	PM2.5	1-Hour	355	1.6	316° (NW)	413528
21-May	6	PM2.5	1-Hour	341	1.7	190° (S)	413528
21-May	7	PM2.5	1-Hour	350	1.2	185° (S)	413528
21-May	8	PM2.5	1-Hour	407	2.6	145° (SE)	413528
21-May	9	PM2.5	1-Hour	425	2.4	98° (E)	413528
21-May	10	PM2.5	1-Hour	407	3.6	127° (SE)	413528

Date	Time (MST)	Parameter	Average Period	Concentration (ug/m3)	Wind speed (km/hr)	Wind Direction	Reference #
21-May	11	PM2.5	1-Hour	356	4.7	166° (SSE)	413528
21-May	12	PM2.5	1-Hour	338	5.5	173° (S)	413528
21-May	13	PM2.5	1-Hour	319	8.2	185° (S)	413528
21-May	14	PM2.5	1-Hour	228	8.0	185° (S)	413528
21-May	15	PM2.5	1-Hour	169	7.2	182° (S)	413528
21-May	16	PM2.5	1-Hour	241	8.2	148° (SE)	413528
21-May	17	PM2.5	1-Hour	234	6.0	155° (SSE)	413528
21-May	18	PM2.5	1-Hour	248	7.4	153° (SSE)	413528
21-May	19	PM2.5	1-Hour	246	5.3	178° (S)	413528
21-May	20	PM2.5	1-Hour	255	8.0	192° (S)	413528
21-May	21	PM2.5	1-Hour	119	32.9	177° (S)	413528
21-May	22	PM2.5	1-Hour	104	4.5	168° (SSE)	413528
21-May	23	PM2.5	1-Hour	88	2.4	166° (S)	413528
21-May	-	PM2.5	24-Hour	304	5.9	163° (SSE)	413528
22-May	3	PM2.5	1-Hour	95	6.1	20° (NNE)	413934
22-May	4	PM2.5	1-Hour	104	4.8	8° (N)	413934
22-May	5	PM2.5	1-Hour	102	7.1	5° (N)	413934
22-May	6	PM2.5	1-Hour	97	11.8	3° (N)	413934
22-May	7	PM2.5	1-Hour	119	12.5	5° (N)	413934
22-May	8	PM2.5	1-Hour	174	13.0	17° (NNE)	413934
22-May	9	PM2.5	1-Hour	216	12.8	33° (NNE)	413934
22-May	10	PM2.5	1-Hour	222	14.3	39° (NE)	413934
22-May	11	PM2.5	1-Hour	210	14.6	38° (NE)	413934
22-May	12	PM2.5	1-Hour	198	13.1	32° (NNE)	413934
22-May	13	PM2.5	1-Hour	144	13.3	35° (NE)	413934
22-May	14	PM2.5	1-Hour	94	14.3	31° (NNE)	413934
22-May	-	PM2.5	24-Hour	91	12.6	19° (NNE)	413934
23-May	-	PM2.5	24-Hour	37	14.8	9° (N)	413934
24-May	-	PM2.5	24-Hour	37	6.8	299° (WNW)	413934

- **TRS:** Following a successful shut-down calibration on May 3, the BV-supplied Thermo 43i-TLE analyzer, s/n: 1152940011, was removed, and the PRAMP-owned Teledyne T100U analyzer, s/n: 132, was installed.

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.
- The canister sampling program was temporarily paused between May 8 and May 30 due to wildfire smoke. Starting in early May, intense wildfire smoke in the region caused NMHC concentrations to spike, resulting in PRAMP's canister systems being automatically activated to collect samples. The objective of the PRAMP canister program is to provide data and information about ambient hydrocarbon concentrations from local industrial sources. Collecting samples triggered by wildfire smoke is not within the intended scope of this component of the regional monitoring program. Therefore, the canister sampling program was paused pending dissipation of wildfire smoke and an improvement in air quality conditions.
- One canister event was recorded at the 842-B station at 06:35 on May 8, at concentration of 0.30ppm.

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

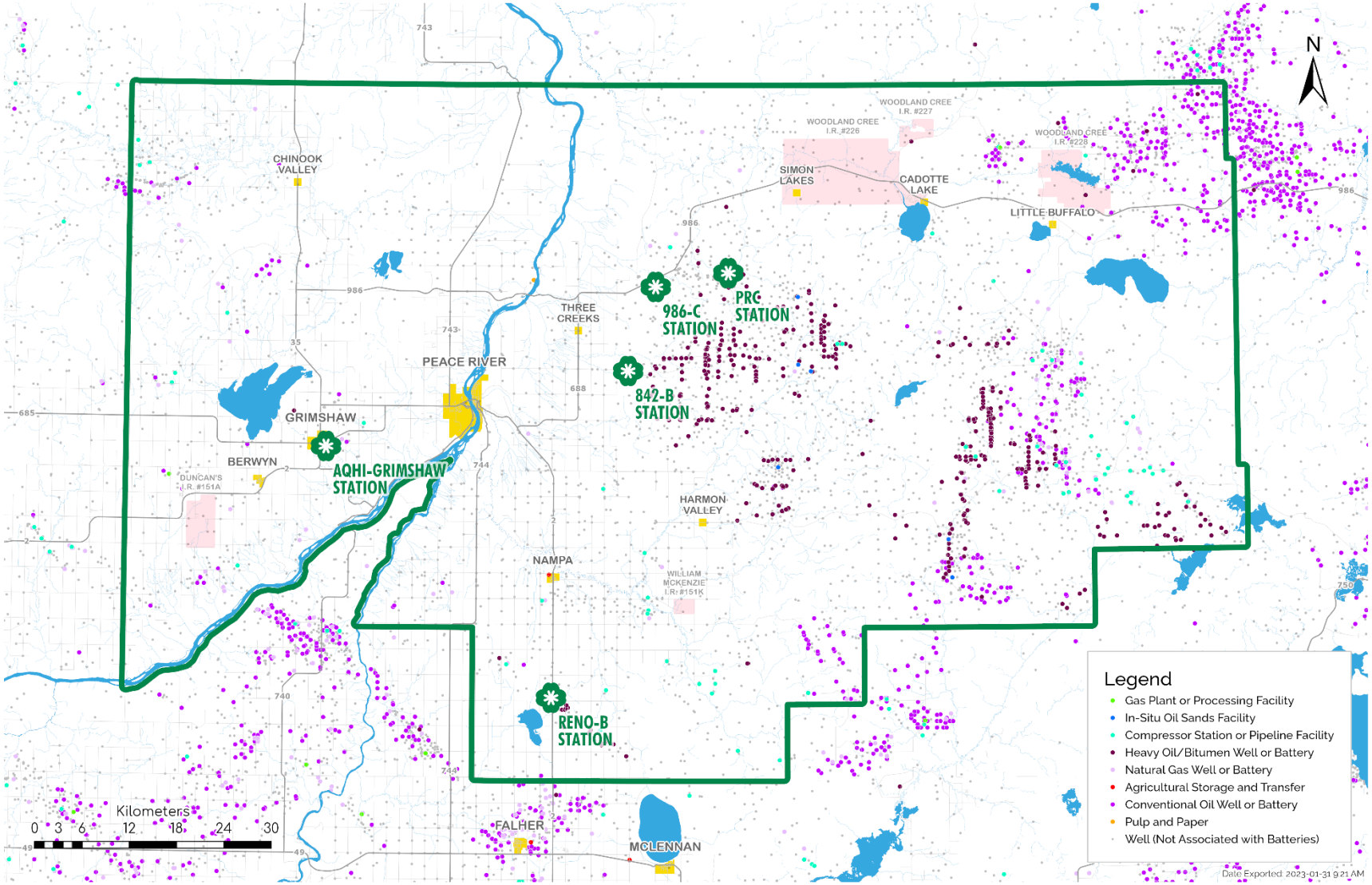
This report was reviewed by Michael Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

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

June 12, 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 May 8. • 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 May 8. • 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	• The PRAMP-owned Teledyne T701H, s/n: 468, failed following a brief power outage on May 5 hour 20. A BV-supplied API T701, s/n: 80, was installed on May 7. Forty-six hours of downtime were recorded due to this event. • A successful monthly calibration was performed on May 8. • 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 May 8. The probe passed the check requirements. • Nine 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 May 8. The sensor passed the check requirements. • Nine 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 May 8. The probe passed the check requirements. • Nine 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
ST COMET #18961918	• No operational issues were identified this month. • Four hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
Precipitation RM Young 52202 #TB 16325	• The precipitation gauge was checked on May 8. 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 May 8. The wind system passed the check requirements. • Nine 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	0.1	0	2	May 20 at hr 18	14.2	ESE	1.0	May 19	99.5	94.5
TRS (ppb)	-	-	-	-	-	-	0.77	0.10	5.66	May 15 at hr 5	5.6	ESE	2.33	May 15	99.5	94.5
THC (ppm)	-	-	-	-	-	-	2.14	1.97	4.07	May 15 at hr 5	5.6	ESE	2.65	May 15	93.3	88.7
CH4 (ppm)	-	-	-	-	-	-	2.12	1.97	3.52	May 9 at hr 5	3.8	SSE	2.38	May 15	93.3	88.7
NMHC (ppm)	-	-	-	-	-	-	0.02	0.00	0.99	May 15 at hr 5	5.6	ESE	0.26	May 15	93.3	88.7
RH (%)	-	-	-	-	-	-	54.6	12	100	May 8 at hr 2	1.5	E	97.0	May 23	98.8	98.8
BP (millibar)	-	-	-	-	-	-	942	931	956	May 14 at hr 6	2.6	SE	953	May 14	98.8	98.8
Ext. Temp. (°C)	-	-	-	-	-	-	15.0	0.9	30.0	May 14 at hr 16	7.6	W	21.8	May 5	98.8	98.8
Stn. Temp. (°C)	-	-	-	-	-	-	23.1	22.1	23.9	May 8 at hr 8	5	S	23.3	May 16	99.5	99.5
Precipitation (mm)*	-	-	-	-	-	-	45.5	0.0	4.0	May 23 at hr 5	19.9	NE	22.7	May 23	99.5	99.5
WSV (km/hr)	-	-	-	-	-	-	3.2	0.2	34.8	May 6 at hr 13	34.8	SE	24.5	May 5	98.8	98.8
WDV (sector)	-	-	-	-	-	-	135 (SE)	-	-	-	-	-	-	-	98.8	98.8

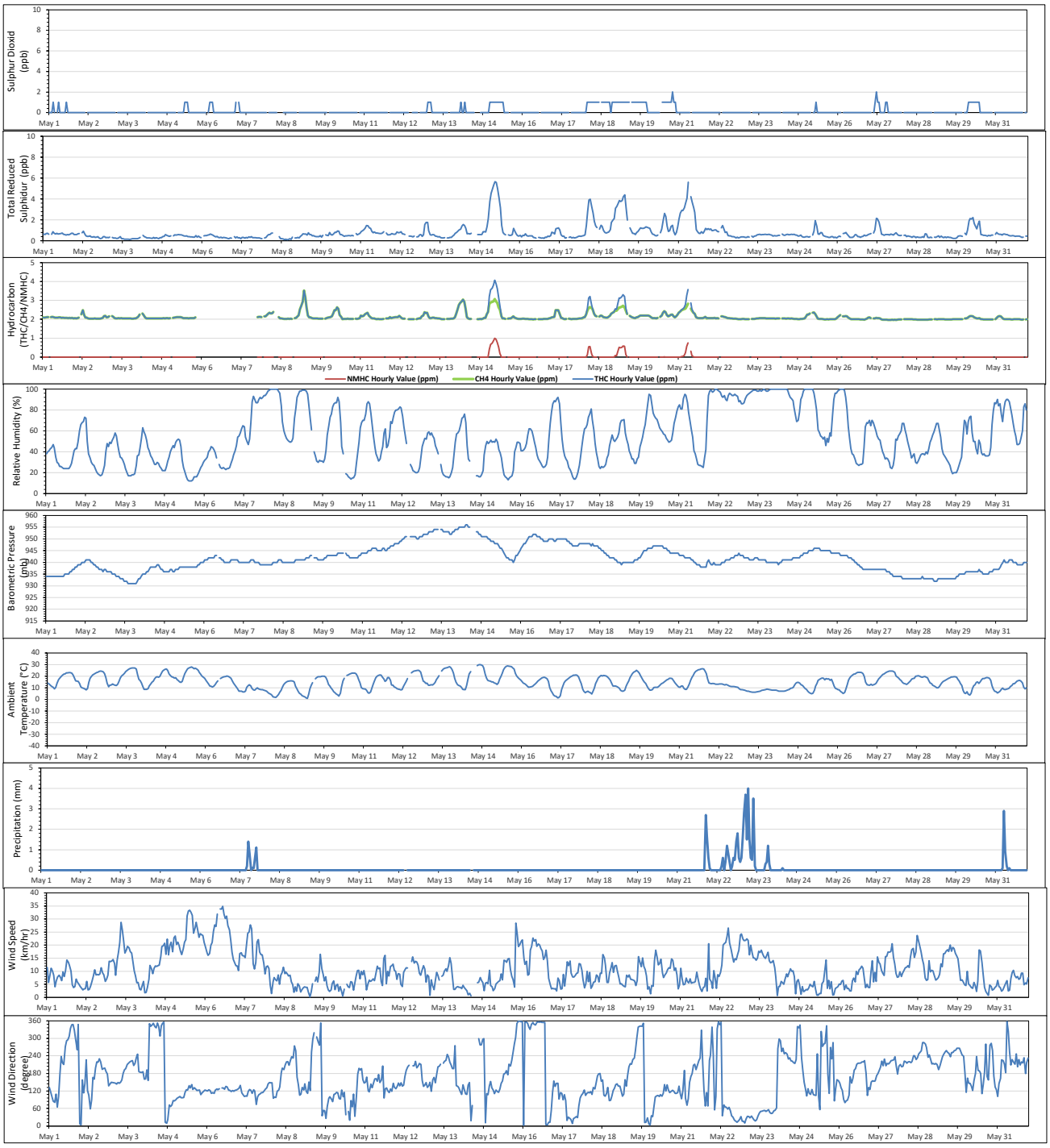
1- Date/ Time given is the first minimum and maximum value that was recorded

* 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 May 2023 - 986-C Station



842-B Station

Equipment Operation Summary

Parameter	Equipment Operational Summary
SO2 Thermo 43iQTL #1200736629	• No data collected between May 1 hour 2 and May 2 hour 2 due to communication issues with the analyzer. The analyzer was manually reset following by a successful zero-span check on May 2 hour 18. Forty-hours of downtime were recorded due to this event. • A successful monthly calibration was performed on May 3.
TRS Thermo 43iQTL #1200736630 TRS Convertor CD Nova CDN-101 #583	• A successful monthly calibration was performed on May 3.
THC/CH4/NMHC Thermo 55i #1314057759 H2 Generator HG300 #190567058	• A successful monthly calibration was performed on May 3.
RH Rotronic HC2-S3 #20370767	• The RH probe was checked on May 3. The probe passed the check requirements.
BP MetOne 092 #Y23362	• The BP sensor was checked on May 3. The sensor passed the check requirements
AT Rotronic HC2-S3 #20370767	• The AT probe was checked on May 3. The probe passed the check requirements.
ST COMET #20790297	• No operational issues were identified this month.

Parameter	Equipment Operational Summary
Precipitation RM Young 52202 #TB 15878	• The precipitation gauge was checked on May 3. 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 May 3. 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	0.1	0	3	May 30 at hr 3	3.3	SE	0.5	May 30	94.6	89.8
TRS (ppb)	-	-	-	-	-	-	0.92	0.26	6.99	May 21 at hr 9	7.3	S	2.79	May 21	100.0	95.0
THC (ppm)	-	-	-	-	-	-	2.10	1.92	3.64	May 21 at hr 7	3.1	SE	2.57	May 21	100.0	94.9
CH4 (ppm)	-	-	-	-	-	-	2.06	1.92	2.84	May 21 at hr 7	3.1	SE	2.29	May 21	100.0	94.9
NMHC (ppm)	-	-	-	-	-	-	0.04	0.00	0.80	May 21 at hr 7	3.1	SE	0.28	May 21	100.0	94.9
RH (%)	-	-	-	-	-	-	57.2	14	100	May 7 at hr 13	3.1	NE	100.0	May 23	100.0	100.0
BP (millibar)	-	-	-	-	-	-	941	930	955	May 14 at hr 6	1.1	E	952	May 14	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	15.4	1.5	30.5	May 14 at hr 16	6.7	WNW	22.2	May 5	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.6	21.2	23.9	May 3 at hr 7	17.3	SSE	23.2	May 5	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	56.4	0.0	5.0	May 23 at hr 2	11.2	NNE	28.6	May 23	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	1.3	0.3	24.8	May 3 at hr 8	24.8	S	13.0	May 28	100.0	100.0
WDV (sector)	-	-	-	-	-	-	170 (SSE)	-	-	-	-	-	-	-	100.0	100.0

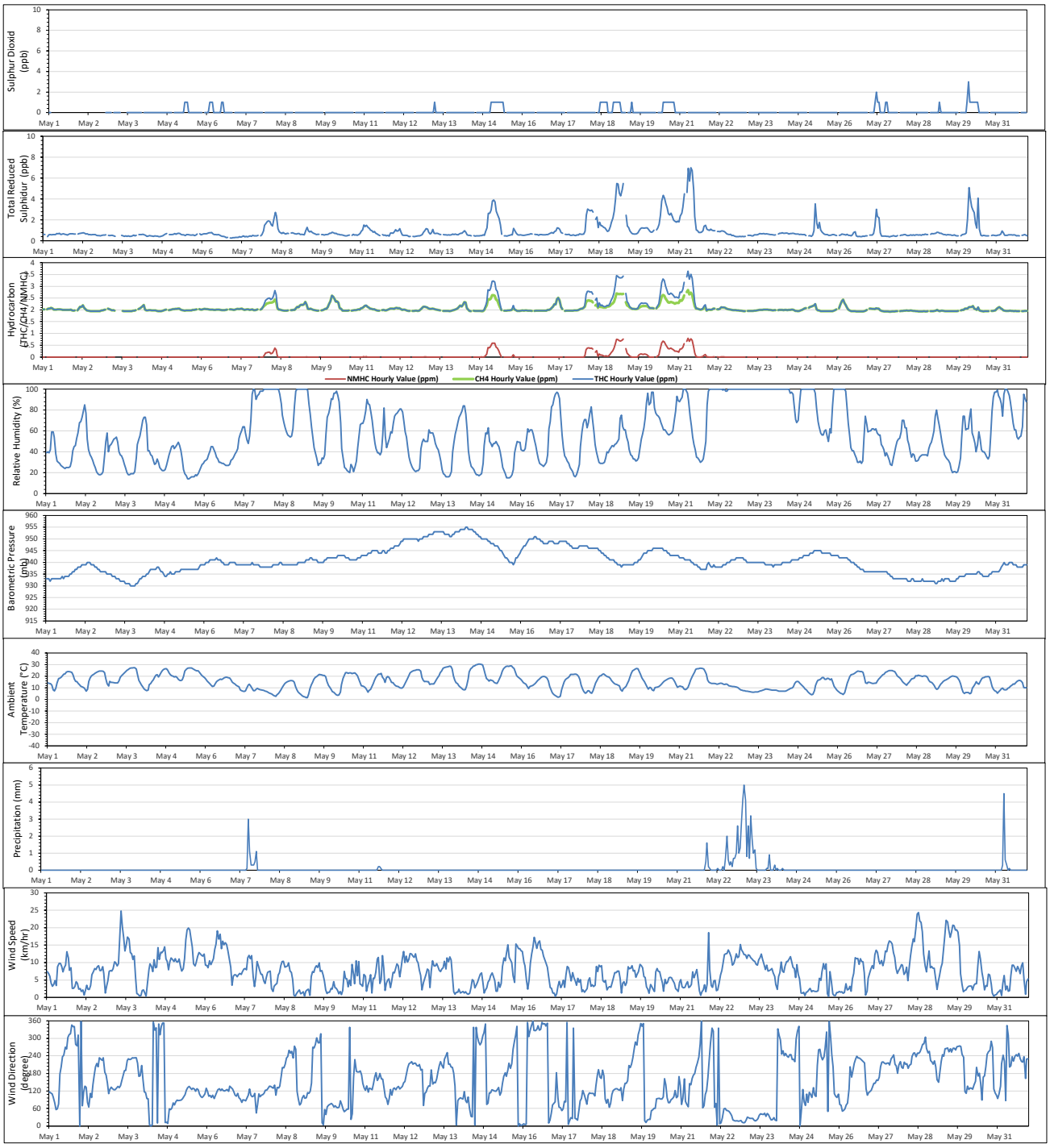
1- Date/ Time given is the first minimum and maximum value that was recorded

* 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 May 2023 - 842-B Station



Reno-B Station

Equipment Operation Summary

Parameter	Equipment Operational Summary
SO2 Thermo 43iQTL #12101910505	• A successful monthly calibration was performed on May 25. • Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.
TRS Thermo 43iQTL #12101910504 **TRS Convertor** CD Nova CDN-101 #590	• A successful monthly calibration was performed on May 25. • Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.
THC/CH4/NMHC Thermo 55i #1505664392 H2 Generator HG300 #210467069	• One hour of downtime was recorded on May 12 hour 10 as the hourly data completeness requirements were not met, which was caused by intermittent polling issues. • A successful monthly calibration was performed on May 25. • Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.
RH Rotronic HC2-S3 #20467597	• The RH probe was checked on May 25. The probe passed the check requirements. • Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. • Three hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.

Parameter	Equipment Operational Summary
BP MetOne 092 #A17940	• The BP sensor was checked on May 25. The sensor passed the check requirements. • Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. • Three hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.
AT Rotronic HC2-S3 #20467597	• The AT probe was checked on May 25. The probe passed the check requirements. • Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. • Three hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.
ST COMET #NA	• Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.
Precipitation RM Young 52202 #TB 15877	• The precipitation gauge was checked and tested on May 25. The unit passed the check requirements. • Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. • Two hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.

Parameter	Equipment Operational Summary
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 May 25. The wind sensors passed the check requirements. • Windows update was performed on May 25 hour 15. This update was to try to fix the intermittent polling issue. Data quality was affected by this maintenance. Therefore, hourly data was discarded. • Three hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues. • Due to datalogger errors, no data were collected from May 5 hour 11 to May 6 hour 6 and May 31 hour 14 to June 1 hour 7. The datalogger was remotely reset to correct the issue both times. Thirty hours of downtime were recorded in May due to these two events.

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	0.2	0	4	May 18 at hr 1	13.4	E	0.8	May 19	96.0	91.1
TRS (ppb)	-	-	-	-	-	-	0.50	0.00	14.94	May 22 at hr 2	7.3	E	2.49	May 17	96.0	91.1
THC (ppm)	-	-	-	-	-	-	2.08	1.92	6.40	May 18 at hr 1	13.4	E	2.82	May 17	95.8	91.0
CH4 (ppm)	-	-	-	-	-	-	2.04	1.92	3.79	May 18 at hr 1	13.4	E	2.38	May 17	95.8	91.0
NMHC (ppm)	-	-	-	-	-	-	0.03	0.00	2.61	May 18 at hr 1	13.4	E	0.44	May 17	95.8	91.0
RH (%)	-	-	-	-	-	-	53.3	12	100	May 9 at hr 3	1.1	W	98.2	May 23	95.6	95.6
BP (millibar)	-	-	-	-	-	-	940	929	954	May 14 at hr 5	3.5	E	952	May 13	95.6	95.6
Ext. Temp. (°C)	-	-	-	-	-	-	15.5	3.6	30.3	May 14 at hr 16	5.2	SSW	22.3	May 14	95.6	95.6
Stn. Temp. (°C)	-	-	-	-	-	-	23.5	21.4	24.6	May 1 at hr 23	10.9	NW	24.0	May 3	96.0	96.0
Precipitation (mm)*	-	-	-	-	-	-	76.1	0.0	8.3	May 21 at hr 20	26.4	SSE	24.6	May 23	95.7	95.7
WSV (km/hr)	-	-	-	-	-	-	2.8	0.3	35.8	May 5 at hr 10	35.8	SE	18.4	May 28	95.4	95.4
WDV (sector)	-	-	-	-	-	-	139 (SE)	-	-	-	-	-	-	-	95.4	95.4

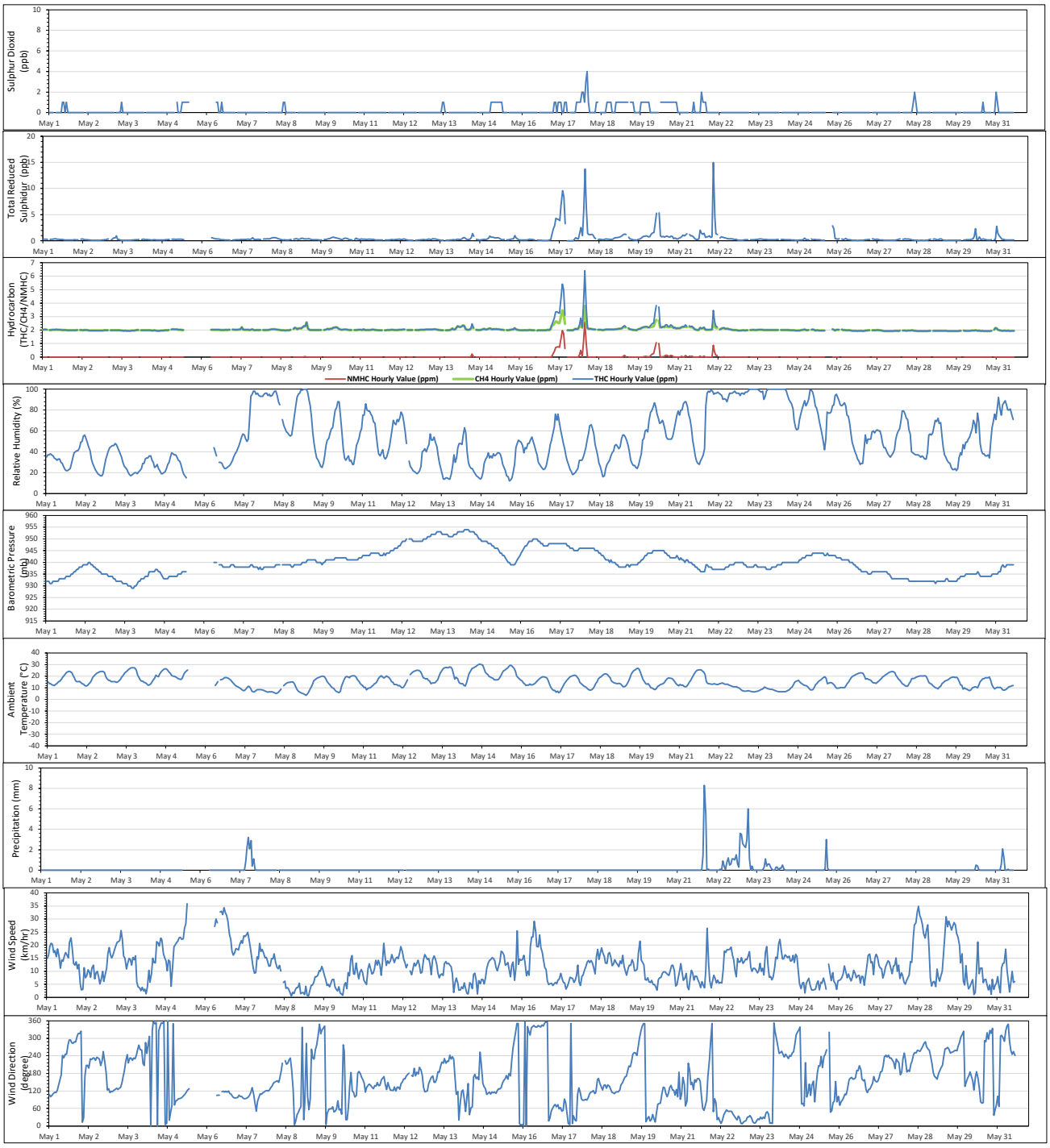
1- Date/ Time given is the first minimum and maximum value that was recorded

* 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 May 2023 - Reno-B Station



PRC Station

Equipment Operation Summary

Parameter	Equipment Operational Summary
SO2 Thermo 43i #1034746225	• No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. A zero-span check was completed on May 7 hour 20 to confirm the analyzer's functionality after power was restored. The analyzer passed the check requirements. Thirty hours of downtime were recorded due to this event. • A successful monthly calibration was performed on May 25.
H2S Thermo 450i #1308857354	• No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. A zero-span check was completed on May 7 hour 20 to confirm the analyzer's functionality after power was restored. The analyzer passed the check requirements. • A successful monthly calibration was performed on May 25.
TRS Thermo 450i #1034746224 TRS Convertor CD Nova CDN-101 #506	• No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. A zero-span check was completed on May 7 hour 20 to confirm the analyzer's functionality after power was restored. The analyzer passed the check requirements. Thirty hours of downtime were recorded due to this event. • A successful monthly calibration was performed on May 25.
THC/CH4/NMHC Thermo 55i #1034745845 H2 Generator HG300 #211067076	• No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. A zero-span check was completed on May 7 hour 20 to confirm the analyzer's functionality after power was restored. The analyzer passed the check requirements. Thirty hours of downtime were recorded due to this event. • Maintenance was performed on the hydrogen generator (desiccant exchange) on May 25. A successful monthly calibration was completed afterwards. One hour of downtime was recorded due to the maintenance activity.
RH Rotronic HC2-S3 #20558318	• No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. Thirty hours of downtime were recorded due to this event. • The RH sensor was checked on May 25. The sensor passed the check requirements.
BP MetOne 092 #B19577	• No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. Thirty hours of downtime were recorded due to this event. • The BP sensor was checked on May 25. The sensor passed the check requirements.

Parameter	Equipment Operational Summary
AT Rotronic HC2-S3 #20558318	• No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. Thirty hours of downtime were recorded due to this event. • The AT sensor was checked on May 25. The sensor passed the check requirements.
ST Canadian Natural #NA	• No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. Thirty 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. • No data were recorded between May 6 hour 13 and May 7 hour 18 due to a power outage. Thirty hours of downtime were recorded due to this event. • The anemometer sensors were checked on May 25. The sensors passed the check requirements.

Monitored Data Summary for Peace River Complex (PRC) Station

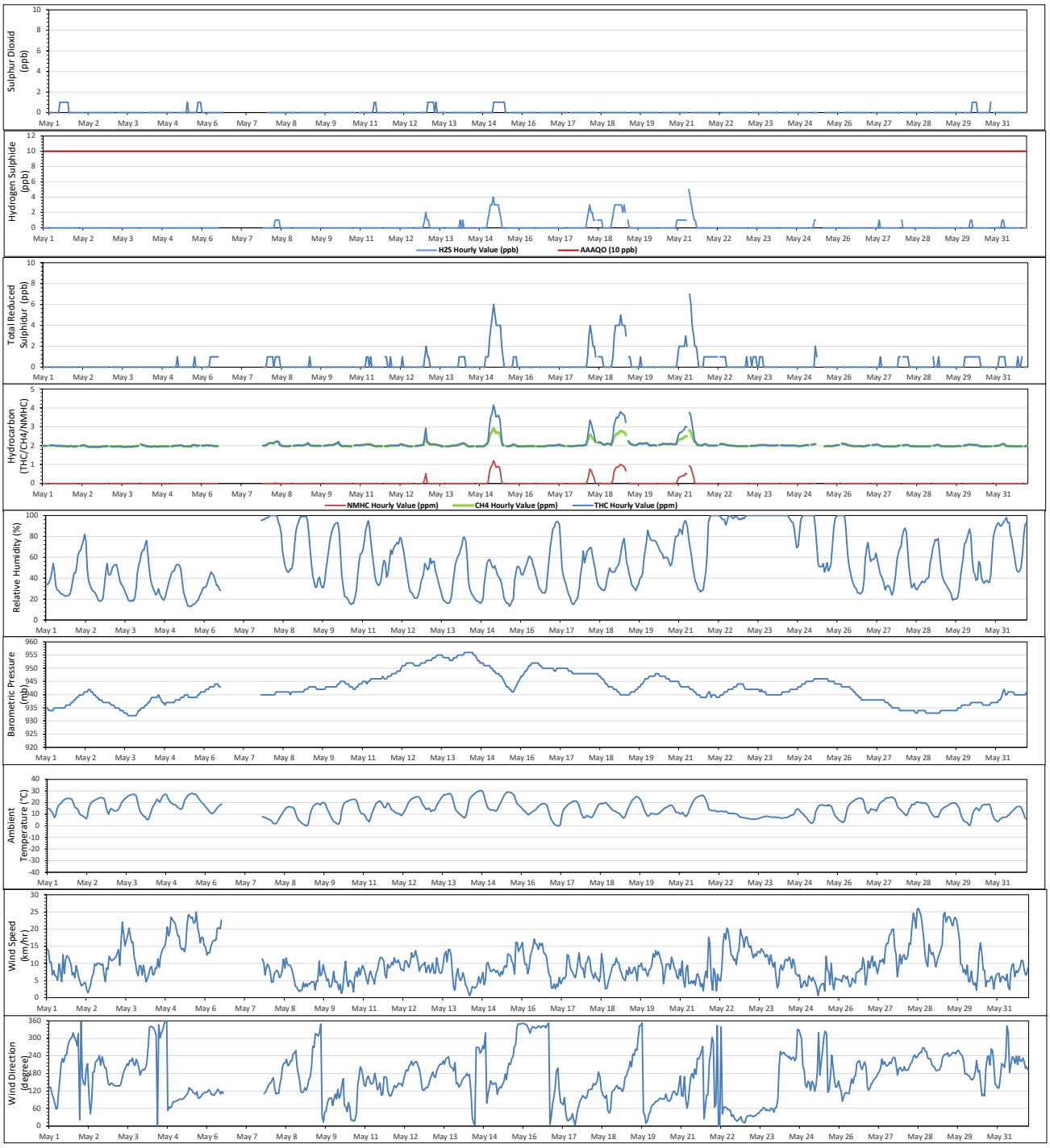
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.1	0	1	May 1 at hr 8	5.1	SSE	0.4	May 15	95.8	90.8
H2S (ppb)	10	3	-	0	0	-	0.2	0	5	May 21 at hr 8	4.9	S	1.2	May 15	95.8	90.8
TRS (ppb)	-	-	-	-	-	-	0.4	0	7	May 21 at hr 8	4.9	S	2.0	May 15	95.8	90.8
THC (ppm)	-	-	-	-	-	-	2.08	1.94	4.15	May 15 at hr 4	7.4	ESE	2.67	May 19	95.7	90.7
CH4 (ppm)	-	-	-	-	-	-	2.04	1.94	2.94	May 15 at hr 4	7.4	ESE	2.32	May 19	95.7	90.7
NMHC (ppm)	-	-	-	-	-	-	0.04	0.00	1.21	May 15 at hr 4	7.4	ESE	0.36	May 15	95.7	90.7
RH (%)	-	-	-	-	-	-	55.5	13	100	May 8 at hr 2	4.5	SSE	99.8	May 23	96.0	96.0
BP (millibar)	-	-	-	-	-	-	942	932	956	May 14 at hr 5	3.7	S	954	May 14	96.0	96.0
Ext. Temp. (°C)	-	-	-	-	-	-	14.8	-0.2	30.3	May 14 at hr 17	5.6	W	21.6	May 5	96.0	96.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.0	19.8	26.7	May 29 at hr 14	20.9	WSW	24.1	May 16	96.0	96.0
WSV (km/hr)	-	-	-	-	-	-	2.6	0.6	26.0	May 28 at hr 12	26	WSW	19.3	May 5	96.0	96.0
WDV (sector)	-	-	-	-	-	-	158 (SSE)	-	-	-	-	-	-	-	96.0	96.0

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 May 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 May 3. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.
TRS Thermo 43i-TLE #1152940011 Teledyne T100U #132 TRS Convertor CD Nova CDN-101 #576	• Following a successful shut-down calibration on May 3, the BV-supplied Thermo 43i-TLE analyzer, s/n: 1152940011, was removed, and the PRAMP-owned Teledyne T100U analyzer, s/n: 132, was installed. One hour of downtime was recorded due to this event. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.
NOx/NO/NO2 Teledyne T200 #837	• A successful monthly calibration was performed on May 3. • The channels were put offline on May 4 in order to perform a GPT check for the ozone calibration. Three hours of downtime were recorded. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded. • The analyzer spanned low, starting May 16. Additional zero-span checks were performed on May 16 and May 18 to investigate the drift. The drift was likely related to smoke contamination. As the analyzer passed the June 6 shut-down calibration, data collected between May 16 and May 31 were considered valid. Two hours of downtime were recorded due to the additional quality checks.
O3 Teledyne T400 #824	• The analyzer was put offline while the sample manifold was being cleaned on May 3. One hour of downtime was recorded. • A successful monthly calibration was performed on May 4. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.
THC/CH4/NMHC Thermo 55i #1191032505 H2 Generator AMA HG300 #190567059	• A successful monthly calibration was performed on May 3. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded. • The analyzer failed the daily span check on May 28 due to the depleted span gas cylinder. An additional zero-span check was completed on May 29 to confirm the drift. The span gas cylinder was replaced on May 31 following by a zero-span check. One hour of downtime was recorded due to the additional quality check.

Parameter	Equipment Operational Summary
PM2.5 Teledyne T640 #3189	• A successful annual audit/maintenance was completed on May 4. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.
RH Vaisala HMP155 #N2910506	• The RH probe was checked on May 4. The Probe passed the check requirements. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.
BP MetOne 092 #A2397	• The BP sensor was checked on May 4. The sensor passed the check requirements. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.
AT Vaisala HMP155 #N2910506	• The AT prober was checked on May 4. The probe passed the check requirements. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.
ST COMET #NA	• No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.
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 May 4. Both the wind speed sensor and wind direction sensor passed the check requirements. • No data were collected on May 15 hour 0 to hour 2 due to datalogger issues. Three hours of downtime were recorded.

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	3	May 27 at hr 9	7.2	WSW	0.6	May 20	99.6	94.5
TRS (ppb)	-	-	-	-	-	-	0.60	0.00	37.15	May 7 at hr 4	8.7	E	3.32	May 7	99.5	94.2
NOx (ppb)	-	-	-	-	-	-	6.0	0	48	May 19 at hr 6	0.8	NNW	13.6	May 18	98.9	93.5
NO (ppb)	-	-	-	-	-	-	0.7	0	30	May 26 at hr 6	3.3	ENE	2.5	May 21	98.9	93.5
NO2 (ppb)	159	-	-	0	-	-	5.3	0	28	May 19 at hr 6	0.8	NNW	12.3	May 18	98.9	93.5
O3 (ppb)	76	-	-	2	-	-	31.5	0.2	77.8	May 21 at hr 17	6	SSE	45.9	May 5	99.5	94.3
THC (ppm)	-	-	-	-	-	-	2.09	1.95	3.77	May 20 at hr 16	5.8	E	2.69	May 20	99.6	94.5
CH4 (ppm)	-	-	-	-	-	-	2.06	1.95	2.84	May 20 at hr 16	5.8	E	2.36	May 20	99.5	94.5
NMHC (ppm)	-	-	-	-	-	-	0.03	0.00	0.93	May 20 at hr 16	5.8	E	0.33	May 20	99.5	94.5
PM2.5 (µg/m3)	80	29	-	164	14	-	81.8	4	1335	May 20 at hr 16	5.8	E	537.9	May 20	97.4	97.3
RH (%)	-	-	-	-	-	-	52.6	14	100	May 7 at hr 16	8.4	ENE	98.8	May 23	99.6	99.6
BP (millibar)	-	-	-	-	-	-	942	931	956	May 14 at hr 4	6.3	NNW	954	May 14	99.6	99.6
Ext. Temp. (°C)	-	-	-	-	-	-	15.6	2.6	30.1	May 14 at hr 15	1.5	ESE	22.4	May 14	99.6	99.6
Stn. Temp. (°C)	-	-	-	-	-	-	22.8	21.9	25.0	May 3 at hr 17	14.5	WSW	23.2	May 3	99.6	99.6
WSV (km/hr)	-	-	-	-	-	-	7.9	0.2	32.9	May 21 at hr 21	32.9	S	14.8	May 23	99.6	99.6
WDV (sector)	-	-	-	-	-	-	47 (NE)	-	-	-	-	-	-	-	99.6	99.6

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 exceedances of AAAQOs and AAAQG were recorded at the AQHI - Grimshaw Station.

Date	Time (MST)	Parameter	Average Period	AAAQOs / AAAQGs	Concentration	Wind speed	Wind Direction	Reference #
May 21	16	O3	1-Hour	76 ppb	77.4 ppb	8.2 km/hr	148° (SE)	414771
May 21	17	O3	1-Hour	76 ppb	77.8 ppb	6.0 km/hr	155° (SSE)	414771
May 5	7	PM2.5	1-Hour	80 µg/m3	83 µg/m3	6.9 km/hr	69° (ENE)	412719
May 5	8	PM2.5	1-Hour	80 µg/m3	88 µg/m3	7.1 km/hr	93° (E)	412719
May 5	14	PM2.5	1-Hour	80 µg/m3	86 µg/m3	18.1 km/hr	119° (ESE)	412719
May 5	15	PM2.5	1-Hour	80 µg/m3	118 µg/m3	13.6 km/hr	111° (ESE)	412719
May 5	16	PM2.5	1-Hour	80 µg/m3	122 µg/m3	9.9 km/hr	114° (ESE)	412719
May 5	-	PM2.5	24-Hour	29 µg/m3	59 µg/m3	11.9 km/hr	93° (E)	412719
May 6	5	PM2.5	1-Hour	80 µg/m3	117 µg/m3	8.0 km/hr	91° (E)	412719
May 6	6	PM2.5	1-Hour	80 µg/m3	132 µg/m3	8.5 km/hr	91° (E)	412719
May 6	7	PM2.5	1-Hour	80 µg/m3	254 µg/m3	9.3 km/hr	92° (E)	412719
May 6	8	PM2.5	1-Hour	80 µg/m3	212 µg/m3	11.2 km/hr	106° (ESE)	412719
May 6	12	PM2.5	1-Hour	80 µg/m3	172 µg/m3	21.9 km/hr	128° (SE)	412719
May 6	13	PM2.5	1-Hour	80 µg/m3	213 µg/m3	21.5 km/hr	125° (SE)	412719
May 6	14	PM2.5	1-Hour	80 µg/m3	143 µg/m3	20.8 km/hr	126° (SE)	412719
May 6	16	PM2.5	1-Hour	80 µg/m3	90 µg/m3	20.9 km/hr	130° (SE)	412719
May 6	-	PM2.5	24-Hour	29 µg/m3	82 µg/m3	13.6 km/hr	115° (ESE)	412719
May 7	5	PM2.5	1-Hour	80 µg/m3	228 µg/m3	6.4 km/hr	97° (E)	412719
May 7	6	PM2.5	1-Hour	80 µg/m3	289 µg/m3	6.7 km/hr	103° (ESE)	412719
May 7	7	PM2.5	1-Hour	80 µg/m3	275 µg/m3	7.9 km/hr	101° (E)	412719
May 7	8	PM2.5	1-Hour	80 µg/m3	399 µg/m3	8.6 km/hr	98° (E)	412719
May 7	9	PM2.5	1-Hour	80 µg/m3	328 µg/m3	8.2 km/hr	120° (ESE)	412719
May 7	10	PM2.5	1-Hour	80 µg/m3	245 µg/m3	8.7 km/hr	93° (E)	412719
May 7	11	PM2.5	1-Hour	80 µg/m3	87 µg/m3	16.2 km/hr	131° (SE)	412719
May 7	-	PM2.5	24-Hour	29 µg/m3	91 µg/m3	7.8 km/hr	109° (ESE)	412719
May 9	9	PM2.5	1-Hour	80 µg/m3	94 µg/m3	2.1 km/hr	256° (WSW)	413090
May 9	10	PM2.5	1-Hour	80 µg/m3	117 µg/m3	0.8 km/hr	144° (SE)	413090
May 9	11	PM2.5	1-Hour	80 µg/m3	98 µg/m3	1.4 km/hr	189° (S)	413090
May 9	12	PM2.5	1-Hour	80 µg/m3	90 µg/m3	1.7 km/hr	287° (WNW)	413090
May 9	-	PM2.5	24-Hour	29 µg/m3	59 µg/m3	4.0 km/hr	340° (NNW)	413090
May 10	-	PM2.5	24-Hour	29 µg/m3	45 µg/m3	5.5 km/hr	40° (NE)	413090
May 14	18	PM2.5	1-Hour	80 µg/m3	103 µg/m3	5.0 km/hr	134° (SE)	413090
May 14	19	PM2.5	1-Hour	80 µg/m3	94 µg/m3	1.7 km/hr	100° (E)	413090
May 14	20	PM2.5	1-Hour	80 µg/m3	115 µg/m3	2.5 km/hr	21° (NNE)	413090
May 14	21	PM2.5	1-Hour	80 µg/m3	101 µg/m3	3.9 km/hr	11° (NNE)	413090
May 14	22	PM2.5	1-Hour	80 µg/m3	83 µg/m3	3.5 km/hr	28° (NNE)	413090
May 14	23	PM2.5	1-Hour	80 µg/m3	144 µg/m3	4.3 km/hr	108° (ENE)	413090
May 15	3	PM2.5	1-Hour	80 µg/m3	356 µg/m3	2.5 km/hr	16° (NNE)	413528
May 15	4	PM2.5	1-Hour	80 µg/m3	273 µg/m3	0.8 km/hr	17° (NNE)	413528
May 15	5	PM2.5	1-Hour	80 µg/m3	227 µg/m3	1.8 km/hr	7° (N)	413528
May 15	6	PM2.5	1-Hour	80 µg/m3	252 µg/m3	1.4 km/hr	61° (ENE)	413528
May 15	7	PM2.5	1-Hour	80 µg/m3	203 µg/m3	6.7 km/hr	162° (SSE)	413528
May 15	8	PM2.5	1-Hour	80 µg/m3	157 µg/m3	11.6 km/hr	170° (SSE)	413528
May 15	9	PM2.5	1-Hour	80 µg/m3	183 µg/m3	12.0 km/hr	169° (SSE)	413528
May 15	10	PM2.5	1-Hour	80 µg/m3	163 µg/m3	12.6 km/hr	167° (SSE)	413528
May 15	11	PM2.5	1-Hour	80 µg/m3	119 µg/m3	13.7 km/hr	170° (SSE)	413528
May 15	12	PM2.5	1-Hour	80 µg/m3	85 µg/m3	12.4 km/hr	171° (S)	413528
May 15	13	PM2.5	1-Hour	80 µg/m3	85 µg/m3	11.4 km/hr	183° (S)	413528
May 15	14	PM2.5	1-Hour	80 µg/m3	99 µg/m3	8.5 km/hr	208° (SSW)	413528
May 15	15	PM2.5	1-Hour	80 µg/m3	111 µg/m3	7.2 km/hr	235° (SW)	413528
May 15	16	PM2.5	1-Hour	80 µg/m3	183 µg/m3	6.0 km/hr	245° (WSW)	413528
May 15	17	PM2.5	1-Hour	80 µg/m3	328 µg/m3	5.1 km/hr	308° (NW)	413528

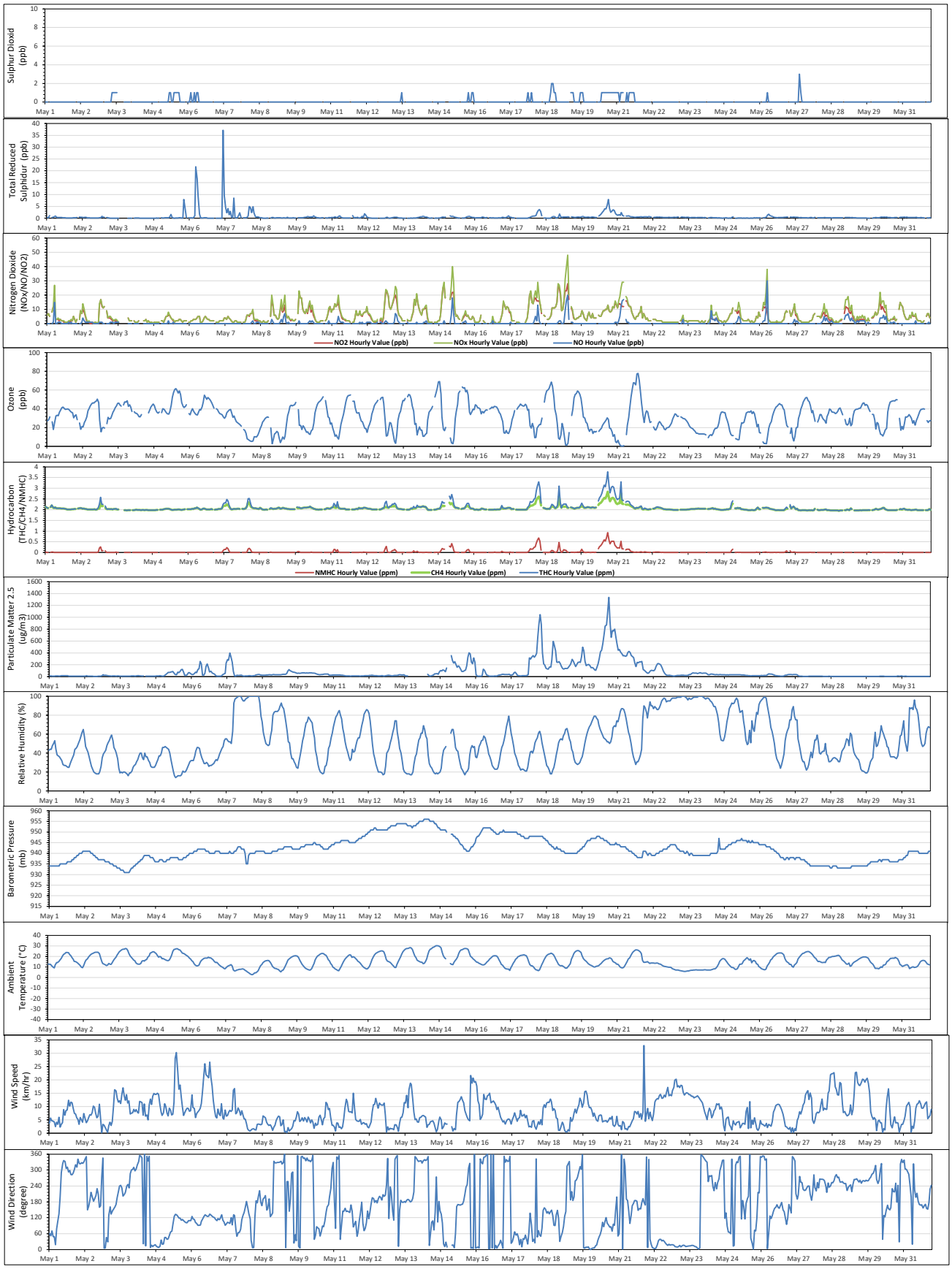
Date	Time (MST)	Parameter	Average Period	AAAQOs / AAAQGs	Concentration	Wind speed	Wind Direction	Reference #
May 15	18	PM2.5	1-Hour	80 µg/m3	402 µg/m3	4.7 km/hr	325° (NW)	413528
May 15	19	PM2.5	1-Hour	80 µg/m3	383 µg/m3	21.7 km/hr	5° (N)	413528
May 15	20	PM2.5	1-Hour	80 µg/m3	243 µg/m3	18.8 km/hr	8° (N)	413528
May 15	21	PM2.5	1-Hour	80 µg/m3	219 µg/m3	20.7 km/hr	4° (N)	413528
May 15	22	PM2.5	1-Hour	80 µg/m3	316 µg/m3	19.2 km/hr	359° (N)	413528
May 15	23	PM2.5	1-Hour	80 µg/m3	243 µg/m3	12.0 km/hr	170° (S)	413528
May 15	-	PM2.5	24-Hour	29 µg/m3	220 µg/m3	10.4 km/hr	337° (NNW)	413528
May 16	6	PM2.5	1-Hour	80 µg/m3	125 µg/m3	14.6 km/hr	348° (NNW)	413528
May 16	7	PM2.5	1-Hour	80 µg/m3	105 µg/m3	12.8 km/hr	350° (N)	413528
May 17	21	PM2.5	1-Hour	80 µg/m3	317 µg/m3	2.7 km/hr	137° (SE)	413528
May 17	22	PM2.5	1-Hour	80 µg/m3	296 µg/m3	2.2 km/hr	92° (E)	413528
May 17	23	PM2.5	1-Hour	80 µg/m3	328 µg/m3	6.2 km/hr	45° (NNE)	413528
May 17	-	PM2.5	24-Hour	29 µg/m3	65 µg/m3	5.2 km/hr	32° (NNE)	413528
May 18	0	PM2.5	1-Hour	80 µg/m3	356 µg/m3	4.8 km/hr	39° (NE)	413528
May 18	1	PM2.5	1-Hour	80 µg/m3	328 µg/m3	2.7 km/hr	25° (NNE)	413528
May 18	2	PM2.5	1-Hour	80 µg/m3	349 µg/m3	1.5 km/hr	342° (NNW)	413528
May 18	3	PM2.5	1-Hour	80 µg/m3	393 µg/m3	3.0 km/hr	47° (NE)	413528
May 18	4	PM2.5	1-Hour	80 µg/m3	669 µg/m3	4.3 km/hr	71° (ENE)	413528
May 18	5	PM2.5	1-Hour	80 µg/m3	890 µg/m3	3.4 km/hr	54° (NE)	413528
May 18	6	PM2.5	1-Hour	80 µg/m3	1043 µg/m3	5.1 km/hr	50° (NE)	413528
May 18	7	PM2.5	1-Hour	80 µg/m3	881 µg/m3	3.2 km/hr	81° (E)	413528
May 18	8	PM2.5	1-Hour	80 µg/m3	396 µg/m3	9.6 km/hr	148° (SE)	413528
May 18	9	PM2.5	1-Hour	80 µg/m3	216 µg/m3	10.7 km/hr	158° (SSE)	413528
May 18	10	PM2.5	1-Hour	80 µg/m3	192 µg/m3	9.7 km/hr	152° (SSE)	413528
May 18	11	PM2.5	1-Hour	80 µg/m3	143 µg/m3	11.3 km/hr	137° (SE)	413528
May 18	12	PM2.5	1-Hour	80 µg/m3	130 µg/m3	11.7 km/hr	143° (SE)	413528
May 18	13	PM2.5	1-Hour	80 µg/m3	126 µg/m3	11.5 km/hr	135° (SE)	413528
May 18	14	PM2.5	1-Hour	80 µg/m3	160 µg/m3	12.8 km/hr	142° (SE)	413528
May 18	15	PM2.5	1-Hour	80 µg/m3	160 µg/m3	12.0 km/hr	149° (SSE)	413528
May 18	16	PM2.5	1-Hour	80 µg/m3	281 µg/m3	8.5 km/hr	128° (SE)	413528
May 18	17	PM2.5	1-Hour	80 µg/m3	595 µg/m3	9.2 km/hr	91° (E)	413528
May 18	18	PM2.5	1-Hour	80 µg/m3	539 µg/m3	8.5 km/hr	90° (E)	413528
May 18	19	PM2.5	1-Hour	80 µg/m3	438 µg/m3	5.7 km/hr	131° (SE)	413528
May 18	20	PM2.5	1-Hour	80 µg/m3	244 µg/m3	5.5 km/hr	148° (SE)	413528
May 18	21	PM2.5	1-Hour	80 µg/m3	241 µg/m3	1.1 km/hr	117° (ESE)	413528
May 18	22	PM2.5	1-Hour	80 µg/m3	252 µg/m3	1.1 km/hr	31° (NNE)	413528
May 18	23	PM2.5	1-Hour	80 µg/m3	221 µg/m3	10.7 km/hr	137° (SE)	413528
May 18	-	PM2.5	24-Hour	29 µg/m3	385 µg/m3	6.6 km/hr	99° (E)	413528
May 19	0	PM2.5	1-Hour	80 µg/m3	175 µg/m3	4.1 km/hr	64° (ENE)	413528
May 19	1	PM2.5	1-Hour	80 µg/m3	136 µg/m3	3.5 km/hr	87° (E)	413528
May 19	2	PM2.5	1-Hour	80 µg/m3	128 µg/m3	1.1 km/hr	126° (SE)	413528
May 19	3	PM2.5	1-Hour	80 µg/m3	136 µg/m3	0.6 km/hr	143° (SE)	413528
May 19	4	PM2.5	1-Hour	80 µg/m3	136 µg/m3	0.5 km/hr	315° (NW)	413528
May 19	5	PM2.5	1-Hour	80 µg/m3	139 µg/m3	1.4 km/hr	323° (NW)	413528
May 19	6	PM2.5	1-Hour	80 µg/m3	156 µg/m3	0.8 km/hr	332° (NNW)	413528
May 19	7	PM2.5	1-Hour	80 µg/m3	188 µg/m3	5.9 km/hr	188° (S)	413528
May 19	8	PM2.5	1-Hour	80 µg/m3	218 µg/m3	4.5 km/hr	218° (SW)	413528
May 19	9	PM2.5	1-Hour	80 µg/m3	291 µg/m3	5.3 km/hr	185° (S)	413528
May 19	10	PM2.5	1-Hour	80 µg/m3	259 µg/m3	7.6 km/hr	198° (SSW)	413528
May 19	11	PM2.5	1-Hour	80 µg/m3	215 µg/m3	9.1 km/hr	259° (WSW)	413528
May 19	12	PM2.5	1-Hour	80 µg/m3	171 µg/m3	7.6 km/hr	263° (W)	413528
May 19	13	PM2.5	1-Hour	80 µg/m3	203 µg/m3	9.2 km/hr	273° (W)	413528
May 19	14	PM2.5	1-Hour	80 µg/m3	239 µg/m3	10.7 km/hr	295° (WNW)	413528
May 19	15	PM2.5	1-Hour	80 µg/m3	242 µg/m3	13.2 km/hr	313° (NW)	413528

Date	Time (MST)	Parameter	Average Period	AAAQOs / AAAQGs	Concentration	Wind speed	Wind Direction	Reference #
May 19	16	PM2.5	1-Hour	80 µg/m3	238 µg/m3	12.0 km/hr	303° (WNW)	413528
May 19	17	PM2.5	1-Hour	80 µg/m3	329 µg/m3	9.8 km/hr	358° (N)	413528
May 19	18	PM2.5	1-Hour	80 µg/m3	497 µg/m3	11.3 km/hr	7° (N)	413528
May 19	19	PM2.5	1-Hour	80 µg/m3	434 µg/m3	15.6 km/hr	5° (N)	413528
May 19	20	PM2.5	1-Hour	80 µg/m3	256 µg/m3	15.8 km/hr	9° (N)	413528
May 19	21	PM2.5	1-Hour	80 µg/m3	186 µg/m3	14.4 km/hr	8° (N)	413528
May 19	22	PM2.5	1-Hour	80 µg/m3	202 µg/m3	11.0 km/hr	10° (N)	413528
May 19	23	PM2.5	1-Hour	80 µg/m3	203 µg/m3	5.3 km/hr	259° (W)	413528
May 19	-	PM2.5	24-Hour	29 µg/m3	224 µg/m3	7.7 km/hr	324° (NW)	413528
May 20	0	PM2.5	1-Hour	80 µg/m3	184 µg/m3	9.7 km/hr	0° (N)	413528
May 20	1	PM2.5	1-Hour	80 µg/m3	150 µg/m3	8.6 km/hr	4° (N)	413528
May 20	2	PM2.5	1-Hour	80 µg/m3	151 µg/m3	6.3 km/hr	6° (N)	413528
May 20	3	PM2.5	1-Hour	80 µg/m3	142 µg/m3	7.6 km/hr	6° (N)	413528
May 20	4	PM2.5	1-Hour	80 µg/m3	113 µg/m3	6.0 km/hr	14° (NNE)	413528
May 20	5	PM2.5	1-Hour	80 µg/m3	106 µg/m3	4.9 km/hr	17° (NNE)	413528
May 20	6	PM2.5	1-Hour	80 µg/m3	158 µg/m3	4.5 km/hr	35° (NE)	413528
May 20	7	PM2.5	1-Hour	80 µg/m3	217 µg/m3	6.5 km/hr	47° (NE)	413528
May 20	8	PM2.5	1-Hour	80 µg/m3	308 µg/m3	6.9 km/hr	57° (ENE)	413528
May 20	9	PM2.5	1-Hour	80 µg/m3	418 µg/m3	6.8 km/hr	73° (ENE)	413528
May 20	10	PM2.5	1-Hour	80 µg/m3	447 µg/m3	4.2 km/hr	103° (ESE)	413528
May 20	11	PM2.5	1-Hour	80 µg/m3	552 µg/m3	4.6 km/hr	86° (E)	413528
May 20	12	PM2.5	1-Hour	80 µg/m3	724 µg/m3	4.6 km/hr	105° (ESE)	413528
May 20	13	PM2.5	1-Hour	80 µg/m3	851 µg/m3	4.8 km/hr	120° (ESE)	413528
May 20	14	PM2.5	1-Hour	80 µg/m3	869 µg/m3	4.1 km/hr	99° (E)	413528
May 20	15	PM2.5	1-Hour	80 µg/m3	1045 µg/m3	4.8 km/hr	93° (E)	413528
May 20	16	PM2.5	1-Hour	80 µg/m3	1335 µg/m3	5.8 km/hr	84° (E)	413528
May 20	17	PM2.5	1-Hour	80 µg/m3	919 µg/m3	5.3 km/hr	86° (E)	413528
May 20	18	PM2.5	1-Hour	80 µg/m3	661 µg/m3	6.3 km/hr	69° (ENE)	413528
May 20	19	PM2.5	1-Hour	80 µg/m3	778 µg/m3	3.1 km/hr	96° (E)	413528
May 20	20	PM2.5	1-Hour	80 µg/m3	769 µg/m3	2.6 km/hr	91° (E)	413528
May 20	21	PM2.5	1-Hour	80 µg/m3	798 µg/m3	3.3 km/hr	150° (SSE)	413528
May 20	22	PM2.5	1-Hour	80 µg/m3	665 µg/m3	6.3 km/hr	198° (SSW)	413528
May 20	23	PM2.5	1-Hour	80 µg/m3	549 µg/m3	6.8 km/hr	86° (ESE)	413528
May 20	-	PM2.5	24-Hour	29 µg/m3	538 µg/m3	5.5 km/hr	68° (ENE)	413528
May 21	0	PM2.5	1-Hour	80 µg/m3	443 µg/m3	2.7 km/hr	60° (ENE)	413528
May 21	1	PM2.5	1-Hour	80 µg/m3	458 µg/m3	2.9 km/hr	181° (S)	413528
May 21	2	PM2.5	1-Hour	80 µg/m3	415 µg/m3	1.4 km/hr	359° (N)	413528
May 21	3	PM2.5	1-Hour	80 µg/m3	390 µg/m3	4.4 km/hr	1° (N)	413528
May 21	4	PM2.5	1-Hour	80 µg/m3	351 µg/m3	3.8 km/hr	341° (NNW)	413528
May 21	5	PM2.5	1-Hour	80 µg/m3	355 µg/m3	1.6 km/hr	316° (NW)	413528
May 21	6	PM2.5	1-Hour	80 µg/m3	341 µg/m3	1.7 km/hr	190° (S)	413528
May 21	7	PM2.5	1-Hour	80 µg/m3	350 µg/m3	1.2 km/hr	185° (S)	413528
May 21	8	PM2.5	1-Hour	80 µg/m3	407 µg/m3	2.6 km/hr	145° (SE)	413528
May 21	9	PM2.5	1-Hour	80 µg/m3	425 µg/m3	2.4 km/hr	98° (E)	413528
May 21	10	PM2.5	1-Hour	80 µg/m3	407 µg/m3	3.6 km/hr	127° (SE)	413528
May 21	11	PM2.5	1-Hour	80 µg/m3	356 µg/m3	4.7 km/hr	166° (SSE)	413528
May 21	12	PM2.5	1-Hour	80 µg/m3	338 µg/m3	5.5 km/hr	173° (S)	413528
May 21	13	PM2.5	1-Hour	80 µg/m3	319 µg/m3	8.2 km/hr	185° (S)	413528
May 21	14	PM2.5	1-Hour	80 µg/m3	228 µg/m3	8.0 km/hr	185° (S)	413528
May 21	15	PM2.5	1-Hour	80 µg/m3	169 µg/m3	7.2 km/hr	182° (S)	413528
May 21	16	PM2.5	1-Hour	80 µg/m3	241 µg/m3	8.2 km/hr	148° (SE)	413528
May 21	17	PM2.5	1-Hour	80 µg/m3	234 µg/m3	6.0 km/hr	155° (SSE)	413528
May 21	18	PM2.5	1-Hour	80 µg/m3	248 µg/m3	7.4 km/hr	153° (SSE)	413528
May 21	19	PM2.5	1-Hour	80 µg/m3	246 µg/m3	5.3 km/hr	178° (S)	413528

Date	Time (MST)	Parameter	Average Period	AAAQOs / AAAQGs	Concentration	Wind speed	Wind Direction	Reference #
May 21	20	PM2.5	1-Hour	80 µg/m3	255 µg/m3	8.0 km/hr	192° (S)	413528
May 21	21	PM2.5	1-Hour	80 µg/m3	119 µg/m3	32.9 km/hr	177° (S)	413528
May 21	22	PM2.5	1-Hour	80 µg/m3	104 µg/m3	4.5 km/hr	168° (SSE)	413528
May 21	23	PM2.5	1-Hour	80 µg/m3	88 µg/m3	2.4 km/hr	166° (S)	413528
May 21	-	PM2.5	24-Hour	29 µg/m3	304 µg/m3	5.9 km/hr	163° (SSE)	413528
May 22	3	PM2.5	1-Hour	80 µg/m3	95 µg/m3	6.1 km/hr	20° (NNE)	413934
May 22	4	PM2.5	1-Hour	80 µg/m3	104 µg/m3	4.8 km/hr	8° (N)	413934
May 22	5	PM2.5	1-Hour	80 µg/m3	102 µg/m3	7.1 km/hr	5° (N)	413934
May 22	6	PM2.5	1-Hour	80 µg/m3	97 µg/m3	11.8 km/hr	3° (N)	413934
May 22	7	PM2.5	1-Hour	80 µg/m3	119 µg/m3	12.5 km/hr	5° (N)	413934
May 22	8	PM2.5	1-Hour	80 µg/m3	174 µg/m3	13.0 km/hr	17° (NNE)	413934
May 22	9	PM2.5	1-Hour	80 µg/m3	216 µg/m3	12.8 km/hr	33° (NNE)	413934
May 22	10	PM2.5	1-Hour	80 µg/m3	222 µg/m3	14.3 km/hr	39° (NE)	413934
May 22	11	PM2.5	1-Hour	80 µg/m3	210 µg/m3	14.6 km/hr	38° (NE)	413934
May 22	12	PM2.5	1-Hour	80 µg/m3	198 µg/m3	13.1 km/hr	32° (NNE)	413934
May 22	13	PM2.5	1-Hour	80 µg/m3	144 µg/m3	13.3 km/hr	35° (NE)	413934
May 22	14	PM2.5	1-Hour	80 µg/m3	94 µg/m3	14.3 km/hr	31° (NNE)	413934
May 22	-	PM2.5	24-Hour	29 µg/m3	91 µg/m3	12.6 km/hr	19° (NNE)	413934
May 23	-	PM2.5	24-Hour	29 µg/m3	37 µg/m3	14.8 km/hr	9° (N)	413934
May 24	-	PM2.5	24-Hour	29 µg/m3	37 µg/m3	6.8 km/hr	299° (WNW)	413934

The cause of the exceedance of the ozone objective was due to Alberta wildfires. Large amounts of volatile and semi-volatile organic materials and nitrogen oxides were emitted from wildfires, and react with the sun and heat to form excessive ground-level ozone.
The source of the exceedance of the PM2.5 objectives and guidelines were due to Alberta wildfires, especially around the Peace River area.

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



TABLES, CHARTS AND WIND ROSES

986-C STATION

Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

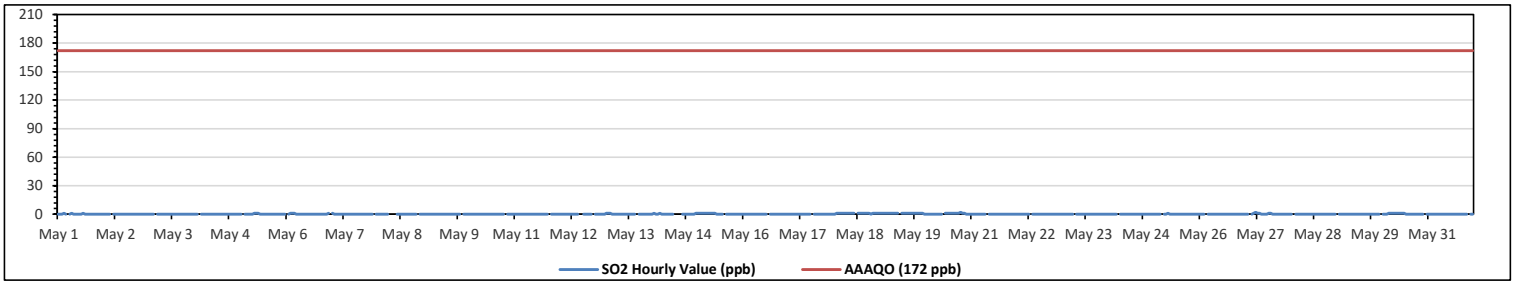
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

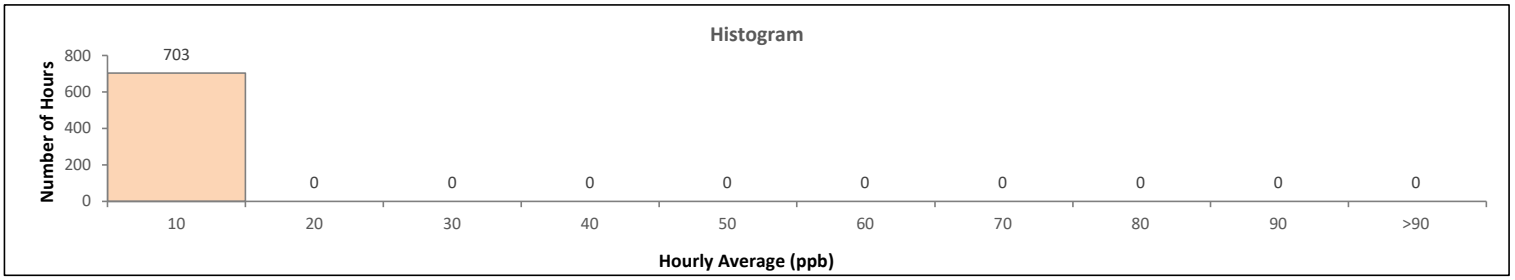
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	2 ppb	on May 20 at hr 18		Hours in Service:	744	
Maximum Daily Value:	1.0 ppb	on May 19		Hours of Data:	703	
Minimum Hourly Value:	0 ppb	on May 1 at hr 0		Hours of Missing Data:	4	
Minimum Daily Value:	0.0 ppb	on May 2		Hours of Calibration:	37	
Monthly Average:	0.1 ppb			Operational Uptime:	99.5	

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

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.



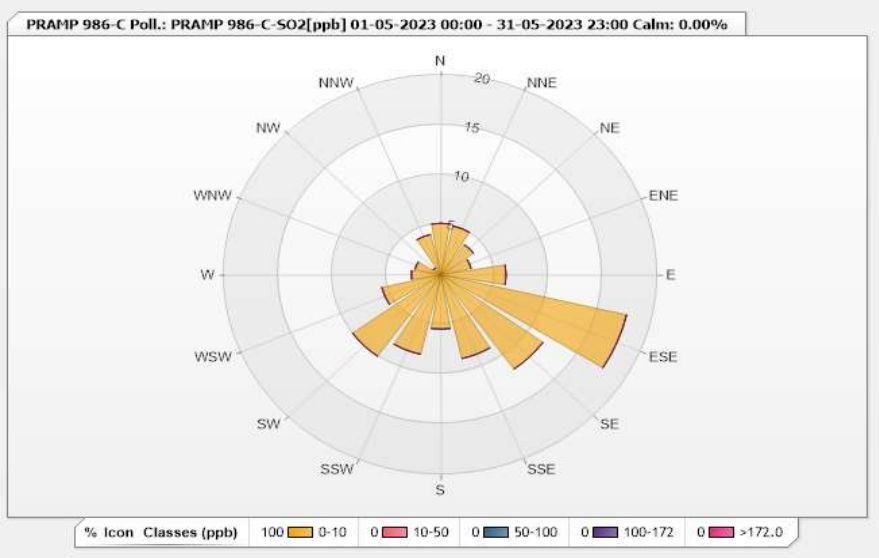


Station: PRAMP 986-C Poll.: PRAMP 986-C-SO2[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 93.82% Calm Avg: 0.00 [ppm]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	5.16	0	0	0	0	5.16
NNE	5.01	0	0	0	0	5.01
NE	3.72	0	0	0	0	3.72
ENE	2.87	0	0	0	0	2.87
E	6.02	0	0	0	0	6.02
ESE	17.62	0	0	0	0	17.62
SE	11.6	0	0	0	0	11.6
SSE	8.6	0	0	0	0	8.6
S	5.44	0	0	0	0	5.44
SSW	8.17	0	0	0	0	8.17
SW	10.03	0	0	0	0	10.03
WSW	5.59	0	0	0	0	5.59
W	2.72	0	0	0	0	2.72
WNW	2.44	0	0	0	0	2.44
NW	0.86	0	0	0	0	0.86
NNW	4.15	0	0	0	0	4.15
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

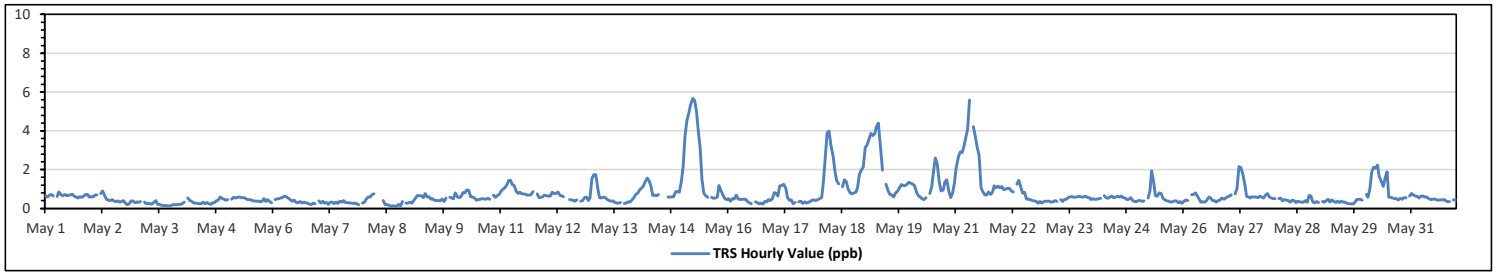
TOTAL REDUCED SULPHUR (TRS) in ppb

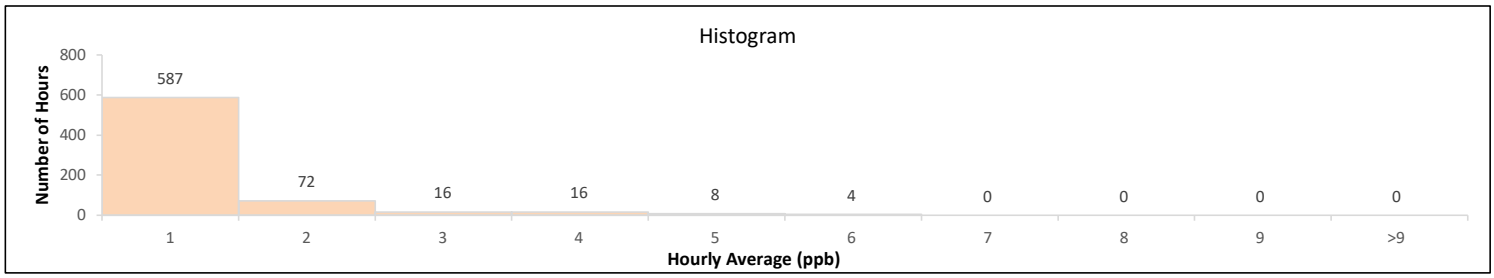
Maximum Hourly Value:	5.66	ppb	on May 15 at hr 5	Hours in Service:	744
Maximum Daily Value:	2.33	ppb	on May 15	Hours of Data:	703
Minimum Hourly Value:	0.10	ppb	on May 8 at hr 14	Hours of Missing Data:	4
Minimum Daily Value:	0.23	ppb	on May 3	Hours of Calibration:	37
Monthly Average:	0.77	ppb		Operational Uptime:	99.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.65	0.59	0.69	0.71	0.63	S	0.62	0.85	0.73	0.65	0.71	0.65	0.68	0.69	0.74	0.63	0.58	0.54	0.61	0.57	0.63	0.73	0.72	0.59	0.54	0.85	0.66
May 2	0.61	0.59	0.68	0.7	S	0.76	0.91	0.67	0.48	0.43	0.42	0.46	0.38	0.36	0.39	0.33	0.35	0.4	0.28	0.2	0.25	0.39	0.39	0.29	0.20	0.91	0.47
May 3	0.34	0.3	0.36	S	0.33	0.25	0.26	0.23	0.22	0.31	0.41	0.21	0.21	0.16	0.16	0.15	0.15	0.12	0.14	0.2	0.19	0.2	0.21	0.21	0.12	0.41	0.23
May 4	0.25	0.33	S	0.53	0.41	0.36	0.28	0.27	0.26	0.24	0.23	0.32	0.23	0.3	0.25	0.21	0.29	0.31	0.39	0.43	0.6	0.51	0.47	0.43	0.21	0.60	0.34
May 5	0.46	S	0.48	0.57	0.54	0.57	0.59	0.56	0.56	0.53	0.48	0.45	0.46	0.39	0.39	0.37	0.37	0.35	0.36	0.5	0.36	0.45	0.36	0.29	0.29	0.59	0.45
May 6	S	0.46	0.49	0.5	0.54	0.57	0.64	0.6	0.52	0.44	0.38	0.43	0.32	0.29	0.35	0.27	0.33	0.29	0.28	0.22	0.19	0.28	0.25	S	0.19	0.64	0.39
May 7	0.39	0.28	0.37	0.28	0.3	0.21	0.32	0.32	0.24	0.32	0.26	0.38	0.32	0.41	0.3	0.29	0.29	0.27	0.26	0.27	0.23	0.19	S	0.27	0.19	0.41	0.29
May 8	0.32	0.49	0.58	0.59	0.72	0.75	C	C	C	C	0.41	0.19	0.19	0.17	0.1	0.15	0.11	0.12	0.21	0.12	0.36	S	0.27	0.27	0.10	0.75	0.32
May 9	0.33	0.28	0.42	0.53	0.67	0.66	0.65	0.55	0.76	0.59	0.61	0.47	0.5	0.43	0.41	0.41	0.39	0.49	0.36	0.53	S	0.57	0.53	0.49	0.28	0.76	0.51
May 10	0.8	0.6	0.55	0.64	0.82	0.8	0.95	0.93	0.61	0.58	0.53	0.43	0.46	0.48	0.5	0.49	0.48	0.52	0.47	S	0.69	0.57	0.65	0.72	0.43	0.95	0.62
May 11	0.88	0.98	1.06	1.22	1.45	1.44	1.23	1.18	0.89	0.77	0.84	0.75	0.75	0.71	0.69	0.69	0.74	0.87	S	0.75	0.56	0.57	0.61	0.69	0.56	1.45	0.88
May 12	0.66	0.63	0.64	0.83	0.77	0.78	0.85	0.67	0.66	0.61	K	K	0.45	0.44	0.43	0.38	0.44	S	0.38	0.41	0.56	0.58	0.42	0.56	0.38	0.85	0.58
May 13	1.55	1.74	1.74	0.97	0.56	0.54	0.6	0.56	0.45	0.42	0.38	0.39	0.31	0.27	0.28	0.31	S	0.26	0.27	0.34	0.32	0.44	0.55	0.72	0.26	1.74	0.61
May 14	0.79	0.94	1.03	1.12	1.4	1.56	1.45	1.18	0.67	0.69	0.66	0.72	K	K	0.72	S	0.6	0.59	0.6	0.61	0.87	0.87	0.83	1.33	0.59	1.56	0.92
May 15	2.14	3.76	4.54	4.93	5.32	**5.66**	5.57	4.98	4.06	3.16	1.46	0.78	0.65	0.57	S	0.57	0.52	0.53	0.59	1.18	0.93	0.67	0.49	0.45	0.45	**5.66**	**2.33**
May 16	0.51	0.38	0.51	0.49	0.68	0.49	0.45	0.48	0.48	0.47	0.34	0.29	0.25	S	0.34	0.3	0.25	0.27	0.22	0.35	0.34	0.45	0.41	0.5	0.22	0.68	0.40
May 17	0.82	0.76	0.64	1.16	1.19	1.24	1.04	0.57	0.43	0.44	0.24	0.31	S	0.34	0.37	0.26	0.34	0.28	0.3	0.36	0.43	0.44	0.42	0.46	0.24	1.24	0.56
May 18	0.5	0.56	1.46	2.8	3.9	3.98	3.24	2.67	1.86	1.43	1.27	S	1.11	1.48	1.38	0.98	0.8	0.75	0.8	0.83	1.06	1.75	1.98	2.13	0.50	3.98	1.68
May 19	3.12	3.28	3.57	3.87	3.76	3.85	4.2	4.4	3.15	1.98	S	1.25	0.93	0.73	0.7	0.59	0.8	0.88	1.06	1.23	1.18	1.18	1.23	1.34	0.59	4.40	2.10
May 20	1.29	1.25	1.18	0.86	0.65	0.6	0.49	0.46	0.55	S	0.76	1.12	1.98	2.61	2.31	1.41	0.89	0.96	1.37	1.49	0.92	0.56	0.79	1.33	0.46	2.61	1.12
May 21	2.07	2.63	2.92	2.88	3.16	3.63	4.08	5.59	S	4.22	3.71	3.15	2.73	1.07	0.85	0.73	0.69	0.85	0.73	0.86	1.17	1.06	1.15	1.06	0.69	5.59	2.22
May 22	1.14	0.97	0.99	1.04	1.03	0.9	0.86	S	1.25	1.45	1.07	0.79	0.84	0.49	0.48	0.46	0.41	0.39	0.38	0.27	0.35	0.28	0.34	0.37	0.27	1.45	0.72
May 23	0.37	0.37	0.33	0.34	0.4	0.36	S	0.45	0.36	0.45	0.47	0.57	0.59	0.62	0.57	0.6	0.61	0.62	0.58	0.58	0.63	0.57	0.55	0.45	0.33	0.63	0.50
May 24	0.5	0.47	0.47	0.51	0.52	S	0.66	0.55	0.52	0.58	0.63	0.56	0.6	0.62	0.6	0.63	0.55	0.54	0.45	0.47	0.55	0.4	0.36	0.35	0.35	0.66	0.53
May 25	0.41	0.4	0.36	0.39	S	0.54	0.92	1.94	1.39	0.66	0.63	0.8	0.77	0.5	0.44	0.39	0.38	0.33	0.34	0.39	0.39	0.29	0.35	0.26	0.26	1.94	0.58
May 26	0.38	0.44	0.41	S	0.7	0.71	0.8	0.64	0.47	0.32	0.34	0.32	0.41	0.59	0.56	0.4	0.41	0.33	0.4	0.43	0.54	0.47	0.53	0.61	0.32	0.80	0.49
May 27	0.64	0.7	S	0.75	1.03	2.15	2.11	1.77	1.26	0.62	0.6	0.53	0.61	0.6	0.59	0.55	0.64	0.59	0.54	0.68	0.76	0.6	0.53	0.5	0.50	2.15	0.84
May 28	0.51	S	0.51	0.54	0.39	0.46	0.43	0.41	0.33	0.43	0.4	0.31	0.38	0.34	0.32	0.32	0.41	0.32	0.67	0.64	0.32	0.29	0.35	0.3	0.29	0.67	0.41
May 29	S	0.36	0.33	0.41	0.48	0.32	0.44	0.35	0.31	0.37	0.3	0.37	0.33	0.32	0.26	0.23	0.23	0.22	0.31	0.45	0.47	0.47	0.43	S	0.22	0.48	0.35
May 30	0.72	0.57	1.01	1.9	2.12	2.08	2.23	1.66	1.38	1.14	1.59	1.88	0.59	0.57	0.53	0.51	0.5	0.44	0.52	0.48	0.55	0.55	S	0.63	0.44	2.23	1.05
May 31	0.78	0.68	0.63	0.62	0.54	0.64	0.64	0.58	0.59	0.51	0.46	0.48	0.49	0.46	0.43	0.44	0.44	0.45	0.4	0.34	0.36	S	0.44	0.44	0.34	0.78	0.51
Diurnal Maximum	3.12	3.76	4.54	4.93	5.32	5.66	5.57	5.59	4.06	4.22	3.71	3.15	2.73	2.61	2.31	1.41	0.89	0.96	1.37	1.49	1.18	1.75	1.98	2.13			
Diurnal Average	0.83	0.89	1.00	1.13	1.21	1.27	1.29	1.24	0.88	0.86	0.71	0.67	0.64	0.59	0.55	0.47	0.47	0.46	0.48	0.54	0.56	0.56	0.57	0.62			

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.



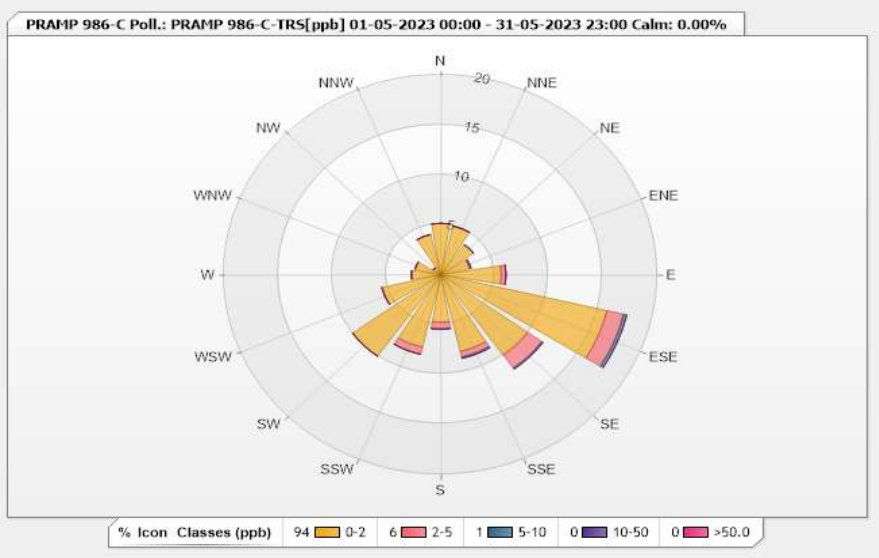


Station: PRAMP 986-C Poll.: PRAMP 986-C-TRS[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 93.82% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	5.16	0	0	0	0	5.16
NNE	5.01	0	0	0	0	5.01
NE	3.72	0	0	0	0	3.72
ENE	2.72	0.14	0	0	0	2.86
E	5.59	0.43	0	0	0	6.02
ESE	15.76	1.58	0.29	0	0	17.63
SE	9.89	1.58	0.14	0	0	11.61
SSE	7.88	0.57	0.14	0	0	8.59
S	4.73	0.72	0	0	0	5.45
SSW	7.45	0.72	0	0	0	8.17
SW	10.03	0	0	0	0	10.03
WSW	5.59	0	0	0	0	5.59
W	2.72	0	0	0	0	2.72
WNW	2.44	0	0	0	0	2.44
NW	0.86	0	0	0	0	0.86
NNW	4.15	0	0	0	0	4.15
Summary	93.7	5.74	0.57	0	0	100



Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

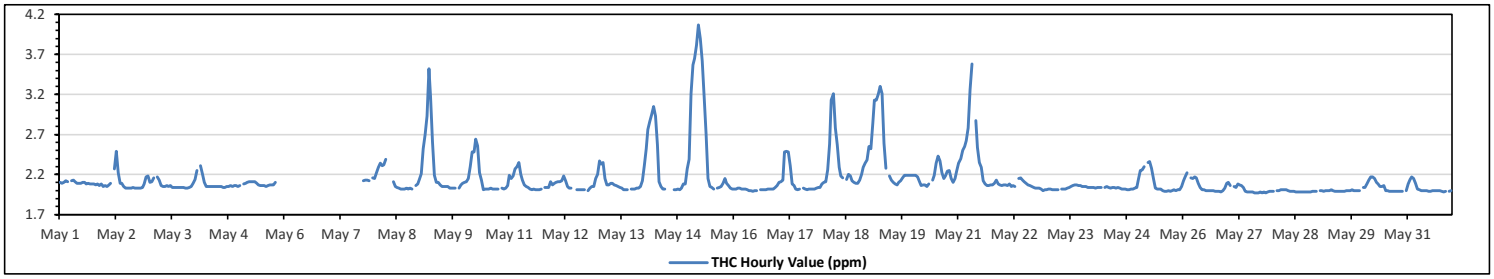
TOTAL HYDROCARBONS (THC) in ppm

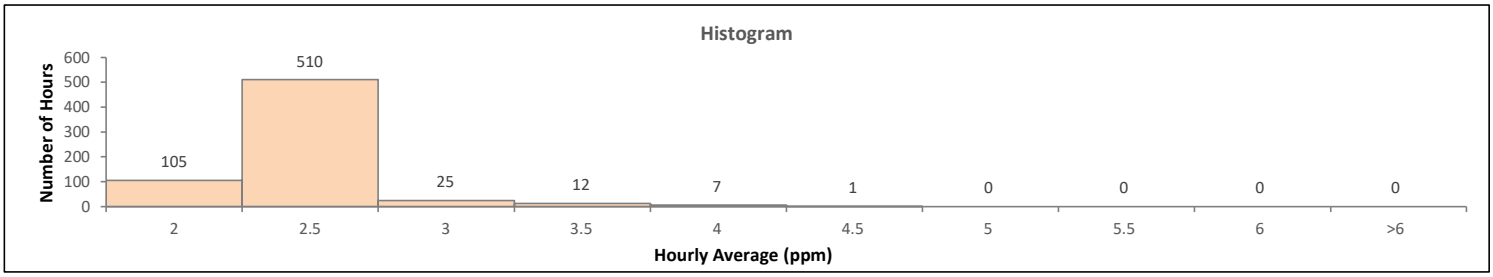
Maximum Hourly Value:	4.07	ppm	on May 15 at hr 5	Hours in Service:	744
Maximum Daily Value:	2.65	ppm	on May 15	Hours of Data:	660
Minimum Hourly Value:	1.97	ppm	on May 27 at hr 14	Hours of Missing Data:	50
Minimum Daily Value:	1.99	ppm	on May 28	Hours of Calibration:	34
Monthly Average:	2.14	ppm		Operational Uptime:	93.3

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			
May 1	2.10	2.09	2.10	2.12	2.11	S	2.12	2.13	2.11	2.09	2.09	2.09	2.10	2.10	2.08	2.09	2.08	2.08	2.08	2.07	2.08	2.06	2.08	2.05	2.05	2.13	2.09
May 2	2.06	2.05	2.07	2.09	S	2.27	2.49	2.22	2.09	2.09	2.05	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.04	2.08	2.17	2.18	2.03	2.49	2.10
May 3	2.10	2.11	2.16	S	2.17	2.13	2.06	2.05	2.05	2.06	2.05	2.06	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.04	2.05	2.09	2.03	2.17	2.07
May 4	2.14	2.25	S	2.31	2.21	2.10	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.06	2.05	2.06	2.06	2.05	2.04	2.31	2.08
May 5	2.06	S	2.08	2.09	2.10	2.11	2.11	2.11	2.11	2.09	2.07	2.06	2.06	2.06	2.05	2.06	2.07	2.07	2.07	2.10	X	X	X	X	2.05	2.11	2.08
May 6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
May 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2.12	2.13	2.13	2.12	S	2.16	2.12	2.16	NA
May 8	2.15	2.22	2.29	2.34	2.31	2.32	2.39	C	C	C	2.11	2.05	2.04	2.03	2.02	2.02	2.02	2.03	2.02	2.03	2.02	S	2.06	2.08	2.02	2.39	2.13
May 9	2.14	2.21	2.52	2.70	2.93	3.52	3.17	2.61	2.19	2.10	2.10	2.07	2.05	2.05	2.05	2.05	2.03	2.03	2.03	2.03	S	2.03	2.07	2.09	2.03	3.52	2.29
May 10	2.10	2.11	2.15	2.30	2.48	2.48	2.64	2.56	2.22	2.13	2.01	2.02	2.02	2.02	2.03	2.02	2.02	2.02	2.02	S	2.03	2.02	2.03	2.06	2.01	2.64	2.15
May 11	2.19	2.15	2.18	2.27	2.30	2.35	2.20	2.13	2.07	2.05	2.04	2.02	2.01	2.02	2.01	2.01	2.01	2.02	S	2.04	2.04	2.04	2.11	2.07	2.01	2.35	2.10
May 12	2.09	2.10	2.11	2.11	2.12	2.18	2.12	2.05	2.03	2.03	K	K	2.01	2.01	2.01	2.01	2.01	S	2.00	2.03	2.05	2.05	2.15	2.20	2.00	2.20	2.07
May 13	2.37	2.33	2.35	2.15	2.07	2.07	2.09	2.09	2.07	2.06	2.05	2.04	2.03	2.01	2.01	2.01	S	2.02	2.02	2.02	2.03	2.03	2.05	2.12	2.01	2.37	2.09
May 14	2.31	2.52	2.76	2.86	2.95	3.05	2.93	2.57	2.11	2.05	2.02	2.02	K	K	2.03	S	2.01	2.01	2.02	2.01	2.03	2.08	2.08	2.27	2.01	3.05	2.32
May 15	2.39	3.21	3.57	3.65	3.81	**4.07**	3.90	3.62	3.17	2.71	2.15	2.05	2.04	2.02	S	2.03	2.04	2.05	2.09	2.15	2.09	2.06	2.03	2.02	2.02	**4.07**	**2.65**
May 16	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.01	2.00	2.00	1.99	2.00	2.00	S	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.04	2.06	1.99	2.06	2.02
May 17	2.10	2.11	2.13	2.48	2.49	2.48	2.31	2.08	2.06	2.02	2.01	2.02	S	2.03	2.02	2.01	2.02	2.02	2.02	2.02	2.03	2.04	2.04	2.08	2.01	2.49	2.11
May 18	2.10	2.11	2.26	2.58	3.13	3.21	2.78	2.57	2.29	2.18	2.16	S	2.14	2.20	2.18	2.12	2.10	2.09	2.09	2.13	2.20	2.29	2.34	2.38	2.09	3.21	2.33
May 19	2.55	2.52	2.84	3.13	3.13	3.20	3.30	3.21	2.59	2.28	S	2.18	2.13	2.10	2.08	2.07	2.10	2.12	2.16	2.19	2.19	2.19	2.19	2.19	2.07	3.30	2.46
May 20	2.19	2.19	2.17	2.11	2.06	2.07	2.07	2.05	2.08	S	2.13	2.19	2.34	2.43	2.37	2.22	2.15	2.18	2.24	2.25	2.15	2.10	2.15	2.24	2.05	2.43	2.18
May 21	2.34	2.40	2.50	2.55	2.62	2.78	3.26	3.58	S	2.87	2.54	2.35	2.29	2.12	2.08	2.06	2.06	2.07	2.07	2.09	2.13	2.08	2.07	2.06	2.06	3.58	2.39
May 22	2.07	2.07	2.06	2.08	2.05	2.06	2.05	S	2.15	2.16	2.13	2.11	2.09	2.07	2.06	2.05	2.04	2.03	2.03	2.03	2.02	2.00	2.01	2.01	2.00	2.16	2.06
May 23	2.02	2.02	2.01	2.01	2.01	2.01	S	2.02	2.02	2.02	2.03	2.04	2.05	2.06	2.07	2.07	2.06	2.06	2.05	2.05	2.05	2.04	2.04	2.04	2.01	2.07	2.04
May 24	2.04	2.03	2.04	2.04	2.04	S	2.04	2.05	2.04	2.03	2.04	2.04	2.03	2.04	2.03	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.03	2.04	2.01	2.05	2.03
May 25	2.14	2.25	2.26	2.30	S	2.35	2.36	2.28	2.15	2.03	2.02	2.02	2.02	2.00	1.99	1.99	2.00	1.99	2.00	2.01	2.00	2.01	2.01	2.05	1.99	2.36	2.10
May 26	2.12	2.17	2.22	S	2.16	2.15	2.17	2.16	2.09	2.04	2.01	2.01	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.98	2.00	2.03	2.09	1.98	2.22	2.06
May 27	2.10	2.06	S	2.05	2.04	2.08	2.07	2.06	2.04	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.98	1.97	1.98	1.97	1.98	1.99	1.99	1.97	2.10	2.01
May 28	1.99	S	2.00	2.00	2.01	2.01	2.01	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.98	2.01	1.99
May 29	S	2.00	2.00	1.99	2.00	2.00	2.00	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.01	2.00	2.00	2.00	2.00	S	1.99	2.01	2.00
May 30	2.04	2.04	2.08	2.13	2.17	2.17	2.15	2.10	2.08	2.05	2.05	2.06	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	S	2.00	1.99	2.17	2.05
May 31	2.08	2.14	2.17	2.15	2.09	2.02	2.01	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.00	2.00	2.00	2.00	1.99	1.98	1.99	S	1.99	2.00	1.98	2.17	2.03
Diurnal Maximum	2.55	3.21	3.57	3.65	3.81	4.07	3.90	3.62	3.17	2.87	2.54	2.35	2.34	2.43	2.37	2.22	2.15	2.18	2.24	2.25	2.20	2.29	2.34	2.38			
Diurnal Average	2.15	2.20	2.26	2.32	2.35	2.42	2.39	2.31	2.14	2.12	2.07	2.06	2.06	2.05	2.04	2.04	2.03	2.04	2.04	2.05	2.05	2.05	2.07	2.10			

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

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



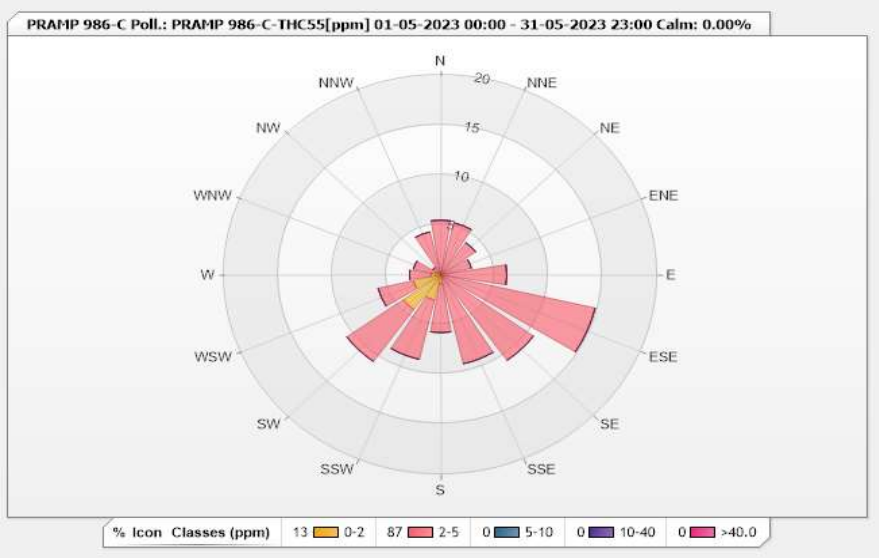


Station: PRAMP 986-C Poll.: PRAMP 986-C-THC55[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 88.17% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.3	5.18	0	0	0	5.48
NNE	0	5.34	0	0	0	5.34
NE	0	3.96	0	0	0	3.96
ENE	0	2.9	0	0	0	2.9
E	0	6.1	0	0	0	6.1
ESE	0.3	14.33	0	0	0	14.63
SE	0.15	10.37	0	0	0	10.52
SSE	0.15	8.99	0	0	0	9.14
S	0.91	4.88	0	0	0	5.79
SSW	2.59	6.1	0	0	0	8.69
SW	4.27	6.4	0	0	0	10.67
WSW	2.59	3.35	0	0	0	5.94
W	0.91	1.98	0	0	0	2.89
WNW	0.46	2.13	0	0	0	2.59
NW	0	0.91	0	0	0	0.91
NNW	0.3	4.12	0	0	0	4.42
Summary	12.93	87.04	0	0	0	100



Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

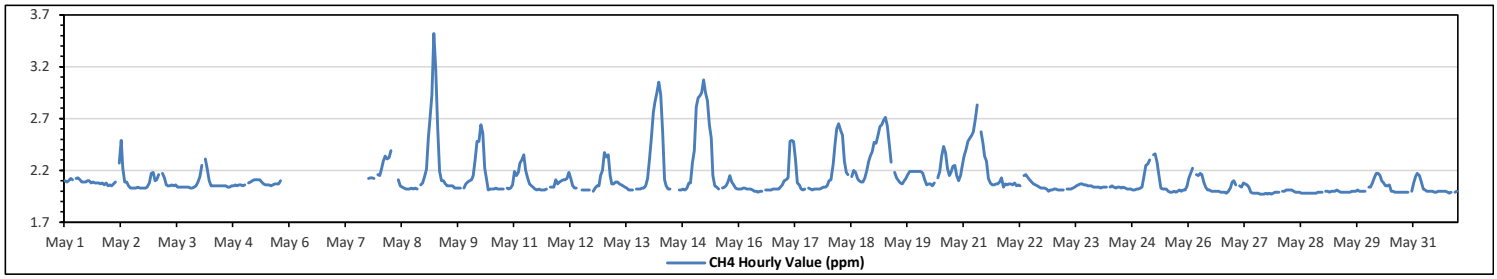
METHANE (CH4) in ppm

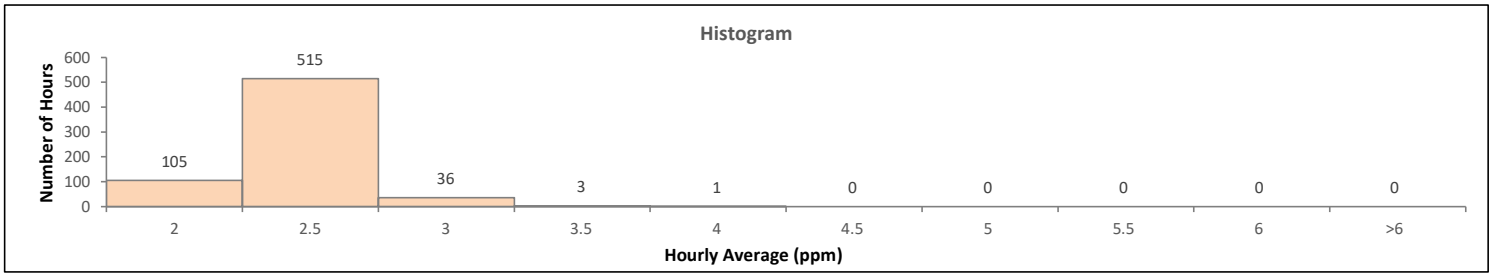
Maximum Hourly Value:	3.52	ppm	on May 9 at hr 5	Hours in Service:	744
Maximum Daily Value:	2.38	ppm	on May 15	Hours of Data:	660
Minimum Hourly Value:	1.97	ppm	on May 27 at hr 14	Hours of Missing Data:	50
Minimum Daily Value:	1.99	ppm	on May 28	Hours of Calibration:	34
Monthly Average:	2.12	ppm		Operational Uptime:	93.3

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			
May 1	2.10	2.09	2.10	2.12	2.11	S	2.12	2.13	2.11	2.09	2.09	2.09	2.10	2.10	2.08	2.09	2.08	2.08	2.08	2.07	2.08	2.06	2.08	2.05	2.05	2.13	2.09
May 2	2.06	2.05	2.07	2.09	S	2.27	2.49	2.22	2.09	2.09	2.05	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.04	2.08	2.17	2.18	2.03	2.49	2.10
May 3	2.10	2.11	2.16	S	2.17	2.13	2.06	2.05	2.05	2.06	2.05	2.06	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.04	2.05	2.09	2.03	2.17	2.07
May 4	2.14	2.25	S	2.31	2.21	2.10	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.06	2.05	2.06	2.06	2.05	2.04	2.31	2.08
May 5	2.06	S	2.08	2.09	2.10	2.11	2.11	2.11	2.11	2.09	2.07	2.06	2.06	2.06	2.05	2.06	2.07	2.07	2.07	2.10	X	X	X	X	2.05	2.11	2.08
May 6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
May 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2.12	2.13	2.13	2.12	S	2.16	2.12	2.16	NA
May 8	2.15	2.22	2.29	2.34	2.31	2.32	2.39	C	C	C	2.11	2.05	2.04	2.03	2.02	2.02	2.02	2.03	2.02	2.03	2.02	S	2.06	2.08	2.02	2.39	2.13
May 9	2.14	2.21	2.52	2.70	2.93	**3.52**	3.17	2.61	2.19	2.10	2.10	2.07	2.05	2.05	2.05	2.05	2.03	2.03	2.03	2.03	S	2.03	2.07	2.09	2.03	**3.52**	2.29
May 10	2.10	2.11	2.15	2.30	2.48	2.48	2.64	2.56	2.22	2.13	2.01	2.02	2.02	2.02	2.03	2.02	2.02	2.02	2.02	S	2.03	2.02	2.03	2.06	2.01	2.64	2.15
May 11	2.19	2.15	2.18	2.27	2.30	2.35	2.20	2.13	2.07	2.05	2.04	2.02	2.01	2.02	2.01	2.01	2.01	2.02	S	2.04	2.04	2.04	2.11	2.07	2.01	2.35	2.10
May 12	2.09	2.10	2.11	2.11	2.12	2.18	2.12	2.05	2.03	2.03	K	K	2.01	2.01	2.01	2.01	2.01	S	2.00	2.03	2.05	2.05	2.15	2.20	2.00	2.20	2.07
May 13	2.37	2.33	2.35	2.15	2.07	2.07	2.09	2.09	2.07	2.06	2.05	2.04	2.03	2.01	2.01	2.01	S	2.02	2.02	2.02	2.03	2.03	2.05	2.12	2.01	2.37	2.09
May 14	2.31	2.52	2.76	2.86	2.95	3.05	2.93	2.57	2.11	2.05	2.02	2.02	K	K	2.03	S	2.01	2.01	2.02	2.01	2.03	2.08	2.08	2.27	2.01	3.05	2.32
May 15	2.39	2.81	2.90	2.92	2.95	3.07	2.95	2.87	2.64	2.51	2.15	2.05	2.04	2.02	S	2.03	2.04	2.05	2.09	2.15	2.09	2.06	2.03	2.02	2.02	3.07	**2.38**
May 16	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.01	2.00	2.00	1.99	2.00	2.00	S	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.04	2.06	1.99	2.06	2.02
May 17	2.10	2.11	2.13	2.48	2.49	2.48	2.31	2.08	2.06	2.02	2.01	2.02	S	2.03	2.02	2.01	2.02	2.02	2.02	2.02	2.03	2.04	2.04	2.05	2.01	2.49	2.11
May 18	2.10	2.11	2.26	2.46	2.60	2.65	2.59	2.54	2.29	2.18	2.16	S	2.14	2.20	2.18	2.12	2.10	2.09	2.09	2.13	2.20	2.29	2.34	2.38	2.09	2.65	2.27
May 19	2.47	2.46	2.54	2.62	2.64	2.68	2.71	2.63	2.46	2.28	S	2.18	2.13	2.10	2.08	2.07	2.10	2.12	2.16	2.19	2.19	2.19	2.19	2.19	2.07	2.71	2.32
May 20	2.19	2.19	2.17	2.11	2.06	2.07	2.07	2.05	2.08	S	2.13	2.19	2.34	2.43	2.37	2.22	2.15	2.18	2.24	2.25	2.15	2.10	2.15	2.24	2.05	2.43	2.18
May 21	2.34	2.40	2.48	2.51	2.54	2.57	2.69	2.83	S	2.57	2.46	2.34	2.29	2.12	2.08	2.06	2.06	2.07	2.07	2.09	2.13	2.04	2.07	2.06	2.04	2.83	2.30
May 22	2.07	2.07	2.06	2.08	2.05	2.06	2.05	S	2.15	2.16	2.13	2.11	2.09	2.07	2.06	2.05	2.04	2.03	2.03	2.03	2.02	2.00	2.01	2.01	2.00	2.16	2.06
May 23	2.02	2.02	2.01	2.01	2.01	2.01	S	2.02	2.02	2.02	2.03	2.04	2.05	2.06	2.07	2.07	2.06	2.06	2.05	2.05	2.05	2.04	2.04	2.04	2.01	2.07	2.04
May 24	2.04	2.03	2.04	2.04	2.04	S	2.04	2.05	2.04	2.03	2.04	2.04	2.03	2.04	2.03	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.03	2.04	2.01	2.05	2.03
May 25	2.14	2.25	2.26	2.30	S	2.35	2.36	2.28	2.15	2.03	2.02	2.02	2.02	2.00	1.99	1.99	2.00	1.99	2.00	2.01	2.00	2.01	2.01	2.05	1.99	2.36	2.10
May 26	2.12	2.17	2.22	S	2.16	2.15	2.17	2.16	2.09	2.04	2.01	2.01	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.98	2.00	2.03	2.09	1.98	2.22	2.06
May 27	2.10	2.06	S	2.05	2.04	2.08	2.07	2.06	2.04	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.98	1.97	1.98	1.97	1.98	1.99	1.99	1.97	2.10	2.01
May 28	1.99	S	2.00	2.00	2.01	2.01	2.01	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.98	2.01	1.99
May 29	S	2.00	2.00	1.99	2.00	2.00	2.00	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.01	2.00	2.00	2.00	2.00	S	1.99	2.01	2.00
May 30	2.04	2.04	2.08	2.13	2.17	2.17	2.15	2.10	2.08	2.05	2.05	2.06	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	S	2.00	1.99	2.17	2.05
May 31	2.08	2.14	2.17	2.15	2.09	2.02	2.01	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.00	2.00	2.00	2.00	1.99	1.98	1.99	S	1.99	2.00	1.98	2.17	2.03
Diurnal Maximum	2.47	2.81	2.90	2.92	2.95	3.52	3.17	2.87	2.64	2.57	2.46	2.34	2.34	2.43	2.37	2.22	2.15	2.18	2.24	2.25	2.20	2.29	2.34	2.38			
Diurnal Average	2.14	2.19	2.23	2.27	2.28	2.33	2.31	2.23	2.12	2.10	2.07	2.06	2.06	2.05	2.04	2.04	2.03	2.04	2.04	2.05	2.05	2.05	2.07	2.09			

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.



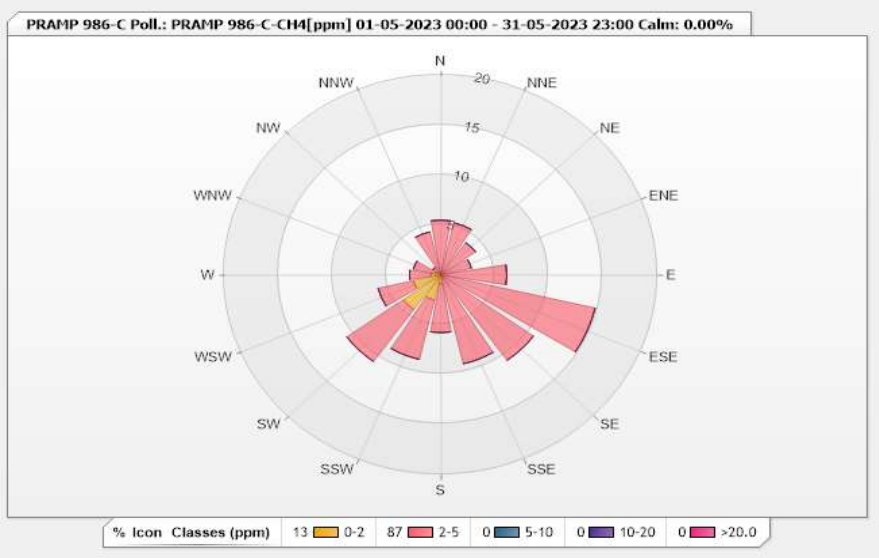


Station: PRAMP 986-C Poll.: PRAMP 986-C-CH4[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 88.17% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.3	5.18	0	0	0	5.48
NNE	0	5.34	0	0	0	5.34
NE	0	3.96	0	0	0	3.96
ENE	0	2.9	0	0	0	2.9
E	0	6.1	0	0	0	6.1
ESE	0.3	14.33	0	0	0	14.63
SE	0.15	10.37	0	0	0	10.52
SSE	0.15	8.99	0	0	0	9.14
S	0.91	4.88	0	0	0	5.79
SSW	2.59	6.1	0	0	0	8.69
SW	4.27	6.4	0	0	0	10.67
WSW	2.59	3.35	0	0	0	5.94
W	0.91	1.98	0	0	0	2.89
WNW	0.46	2.13	0	0	0	2.59
NW	0	0.91	0	0	0	0.91
NNW	0.3	4.12	0	0	0	4.42
Summary	12.93	87.04	0	0	0	100



Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

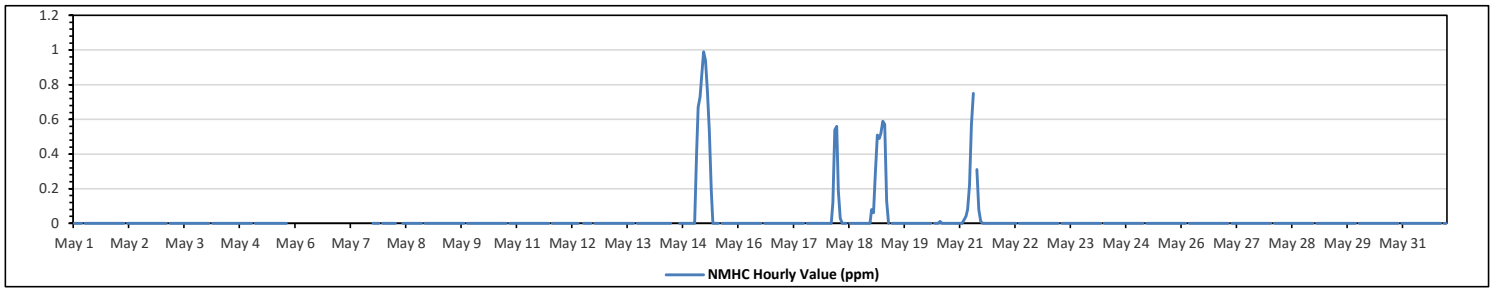
NON-METHANE HYDROCARBONS (NMHC) in ppm

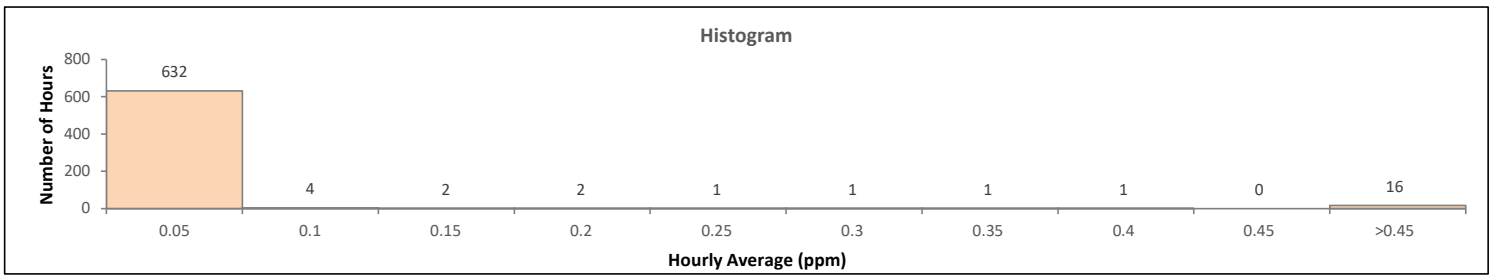
Maximum Hourly Value:	0.99	ppm	on May 15 at hr 5	Hours in Service:	744
Maximum Daily Value:	0.26	ppm	on May 15	Hours of Data:	660
Minimum Hourly Value:	0.00	ppm	on May 1 at hr 0	Hours of Missing Data:	50
Minimum Daily Value:	0.00	ppm	on May 1	Hours of Calibration:	34
Monthly Average:	0.02	ppm		Operational Uptime:	93.3

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			
May 1	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 2	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 3	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 4	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 5	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	0.00	0.00	0.00
May 6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
May 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	NA
May 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	S	0.00	0.00	0.00	0.00	0.00
May 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
May 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 12	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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	K	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
May 15	0.00	0.40	0.67	0.73	0.85	0.99	0.94	0.76	0.53	0.19	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.99**	**0.26**
May 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 18	0.00	0.00	0.00	0.12	0.54	0.56	0.19	0.03	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.06
May 19	0.08	0.06	0.30	0.51	0.49	0.52	0.59	0.57	0.13	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.14
May 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
May 21	0.00	0.00	0.02	0.04	0.08	0.22	0.57	0.75	S	0.31	0.08	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	0.75	0.09
May 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 23	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 24	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 25	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 26	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 27	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 28	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 29	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
May 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.08	0.40	0.67	0.73	0.85	0.99	0.94	0.76	0.53	0.31	0.08	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Diurnal Average	0.00	0.02	0.04	0.05	0.07	0.08	0.08	0.08	0.02	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			

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.



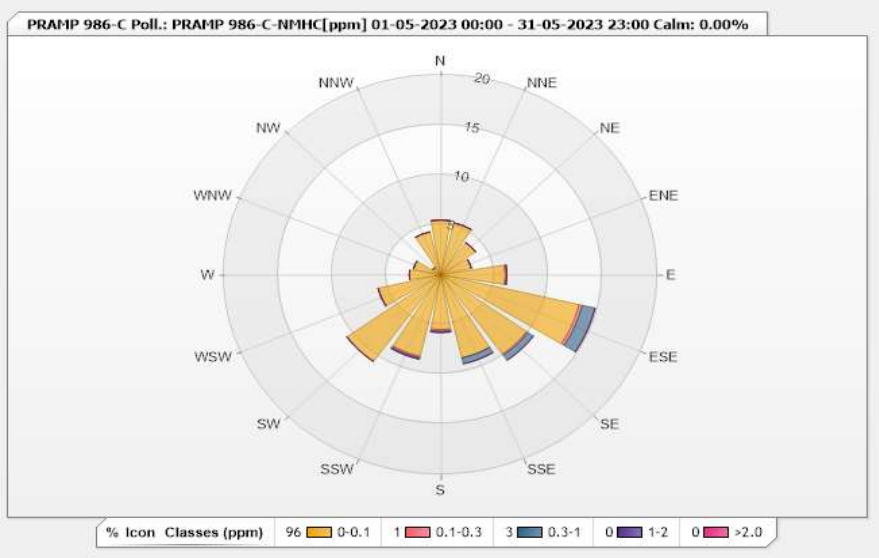


Station: PRAMP 986-C Poll.: PRAMP 986-C-NMHC[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 88.17% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	5.49	0	0	0	0	5.49
NNE	5.34	0	0	0	0	5.34
NE	3.96	0	0	0	0	3.96
ENE	2.9	0	0	0	0	2.9
E	5.95	0.15	0	0	0	6.1
ESE	13.11	0.3	1.22	0	0	14.63
SE	9.76	0.15	0.61	0	0	10.52
SSE	8.54	0	0.61	0	0	9.15
S	5.49	0.15	0.15	0	0	5.79
SSW	8.38	0.15	0.15	0	0	8.68
SW	10.67	0	0	0	0	10.67
WSW	5.95	0	0	0	0	5.95
W	2.9	0	0	0	0	2.9
WNW	2.59	0	0	0	0	2.59
NW	0.91	0	0	0	0	0.91
NNW	4.42	0	0	0	0	4.42
Summary	96.36	0.9	2.74	0	0	100



Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

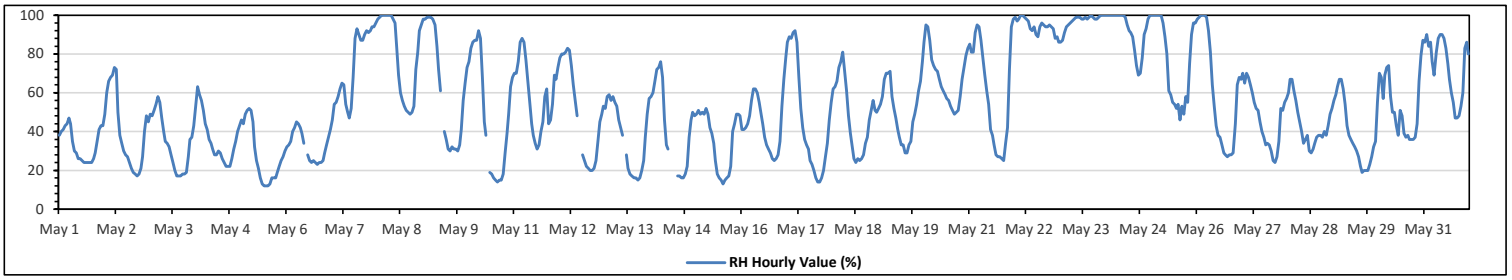
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on May 8 at hr 2	Hours in Service:	744	
Maximum Daily Value:	97.0	%	on May 23	Hours of Data:	735	
Minimum Hourly Value:	12	%	on May 5 at hr 12	Hours of Missing Data:	9	
Minimum Daily Value:	27.7	%	on May 5	Hours of Calibration:	0	
Monthly Average:	54.6	%		Operational Uptime:	98.8	

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	38	40	41	43	44	47	44	35	30	29	26	26	25	24	24	24	24	24	26	29	35	41	43	43	24	47	33.5
May 2	49	60	66	68	69	73	72	50	38	34	30	28	27	24	21	19	18	17	18	21	27	40	48	45	17	73	40.1
May 3	49	48	51	54	58	55	47	40	35	34	32	28	24	20	17	17	17	18	18	19	27	36	37	43	17	58	34.3
May 4	53	63	59	56	51	44	41	36	34	31	28	28	30	29	26	24	22	22	22	26	31	35	40	43	22	63	36.4
May 5	46	44	49	51	52	51	45	32	25	21	16	13	**12**	**12**	**12**	13	16	16	16	19	22	25	27	30	**12**	52	**27.7**
May 6	32	33	35	40	42	45	44	42	39	34	**K**	28	25	24	25	24	23	24	24	25	29	33	37	41	23	45	32.5
May 7	46	54	55	58	62	65	64	54	50	47	52	68	88	93	90	87	87	90	92	91	92	94	94	96	46	96	73.7
May 8	98	99	**100**	**100**	**100**	**100**	**100**	**100**	98	96	84	69	60	56	53	51	50	49	50	53	72	81	92	95	49	**100**	79.4
May 9	98	98	99	99	99	98	95	84	72	61	**K**	40	36	31	30	32	31	31	30	33	41	56	65	73	30	99	62.3
May 10	76	83	86	87	87	92	88	68	45	38	**K**	19	18	16	15	14	15	15	18	29	39	49	63	68	14	92	49.0
May 11	70	70	76	86	88	86	77	66	55	44	38	34	31	33	40	45	58	62	44	46	54	69	67	73	31	88	58.8
May 12	78	80	80	81	83	82	74	64	56	48	**K**	**K**	28	25	22	21	20	20	21	25	35	45	49	53	20	83	49.5
May 13	52	58	59	56	58	55	53	46	42	38	**K**	28	21	18	17	16	16	15	16	20	25	37	49	57	15	59	37.0
May 14	58	60	66	72	73	76	68	46	33	31	**K**	25	**K**	**K**	17	17	16	16	18	22	37	46	50	48	16	76	42.6
May 15	49	51	49	50	49	52	49	42	39	34	25	18	16	15	13	15	16	17	22	40	44	49	49	48	13	52	35.5
May 16	41	41	42	44	48	56	62	62	60	55	49	44	37	33	31	29	26	25	26	28	35	53	67	78	25	78	44.7
May 17	86	89	88	91	92	86	68	52	42	36	33	31	25	23	20	16	14	14	16	20	27	34	46	55	14	92	46.0
May 18	62	63	66	73	76	81	71	61	48	39	33	26	24	26	25	26	28	34	37	46	51	56	51	50	24	81	48.0
May 19	52	54	58	67	70	70	71	58	52	47	41	37	33	33	29	29	33	35	45	49	54	61	66	76	29	76	50.8
May 20	86	95	94	87	77	74	72	71	67	63	61	59	57	56	53	51	49	50	51	58	67	73	79	83	49	95	68.0
May 21	85	81	81	91	95	94	87	78	69	61	54	41	38	33	28	27	27	26	25	34	42	72	94	98	25	98	60.9
May 22	99	97	98	**100**	**100**	99	98	97	93	92	94	90	89	94	96	95	94	94	95	94	93	88	89	86	86	**100**	94.3
May 23	86	87	91	94	95	96	97	98	99	99	99	98	98	99	98	99	**100**	99	98	98	99	**100**	**100**	**100**	86	**100**	**97.0**
May 24	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	95	92	91	89	82	74	69	70	78	90	93	98	**100**	69	**100**	92.5
May 25	**100**	**100**	**100**	**100**	**100**	**100**	96	89	80	61	59	55	54	52	54	46	53	49	58	55	75	90	96	96	46	**100**	75.8
May 26	98	99	**100**	**100**	**100**	99	92	81	64	53	43	38	37	33	29	28	27	28	28	29	44	64	68	67	27	**100**	60.4
May 27	70	65	70	68	64	60	55	52	51	45	40	37	33	34	33	30	25	24	27	35	52	51	55	57	24	70	47.2
May 28	60	67	67	61	56	50	45	40	34	36	38	30	29	31	34	37	38	38	37	40	38	43	49	52	29	67	43.8
May 29	56	59	63	67	67	62	54	43	38	36	34	32	30	27	22	19	20	20	20	23	27	32	35	55	19	67	39.2
May 30	70	68	57	69	73	74	58	50	50	43	38	51	48	39	37	38	36	36	36	37	44	66	79	87	36	87	53.5
May 31	86	90	84	86	76	69	81	88	90	90	88	83	75	67	60	55	47	47	48	53	60	83	86	80	47	90	73.8
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	99	98	98	99	98	99	100	99	98	98	99	100	100	100			
Diurnal Average	68.7	70.8	71.9	74.2	74.3	73.9	69.9	62.1	55.7	50.8	49.4	43.3	41.3	39.7	37.4	36.3	36.1	36.3	37.2	41.1	48.6	57.9	63.5	67.0			

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 - May 2023

Summary of Hourly Averages

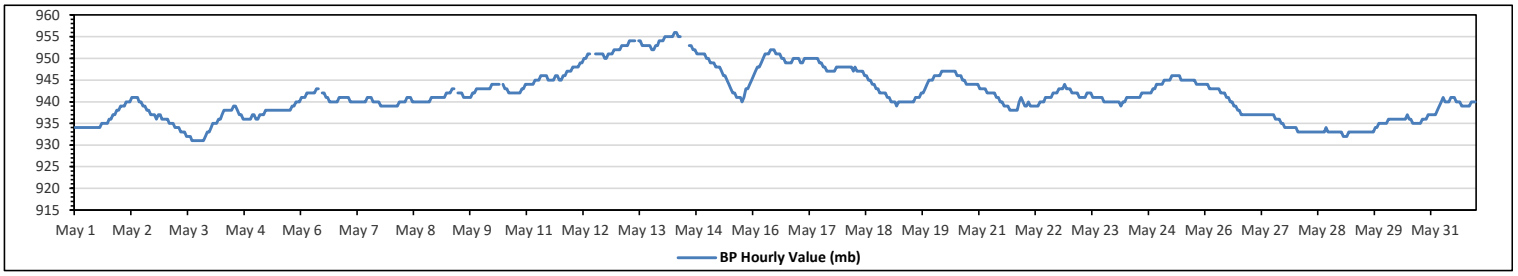
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	956	mb	on May 14 at hr 6	Hours in Service:	744
Maximum Daily Value:	953	mb	on May 14	Hours of Data:	735
Minimum Hourly Value:	931	mb	on May 3 at hr 14	Hours of Missing Data:	9
Minimum Daily Value:	933	mb	on May 3	Hours of Calibration:	0
Monthly Average:	942	mb		Operational Uptime:	98.8

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	934	934	934	934	934	934	934	934	934	934	934	934	934	934	935	935	935	935	936	936	937	937	938	938	934	938	935
May 2	939	939	939	940	940	940	941	941	941	941	940	940	939	939	938	938	937	937	937	936	937	937	936	936	936	941	939
May 3	936	936	935	935	935	934	934	934	933	933	933	932	932	932	**931**	**931**	**931**	**931**	**931**	**931**	**931**	932	933	933	**931**	936	**933**
May 4	934	935	935	935	936	936	937	938	938	938	938	938	939	939	938	937	937	936	936	936	936	936	937	937	934	939	937
May 5	936	936	937	937	937	938	938	938	938	938	938	938	938	938	938	938	938	938	938	939	939	940	940	940	936	940	938
May 6	941	941	941	942	942	942	942	942	943	943	K	942	942	941	941	940	940	940	940	940	941	941	941	941	940	943	941
May 7	941	941	940	940	940	940	940	940	940	940	940	941	941	941	940	940	940	940	939	939	939	939	939	939	939	941	940
May 8	939	939	939	939	940	940	940	940	941	941	941	940	940	940	940	940	940	940	940	940	940	941	941	941	939	941	940
May 9	941	941	941	941	941	942	942	942	943	943	K	942	942	942	941	941	941	941	941	942	942	943	943	943	941	943	942
May 10	943	943	943	943	943	944	944	944	944	944	K	944	943	943	942	942	942	942	942	942	942	943	943	944	942	944	943
May 11	944	944	944	944	945	945	945	946	946	946	946	945	945	945	945	946	946	945	945	946	946	947	947	947	944	947	945
May 12	948	948	948	948	949	949	950	950	951	951	K	K	951	951	951	951	951	950	950	951	951	951	952	952	948	952	950
May 13	952	952	953	953	953	953	954	954	954	954	K	954	954	953	953	953	953	953	952	952	953	953	954	954	952	954	953
May 14	954	955	955	955	955	955	**956**	**956**	955	955	K	955	K	K	953	953	952	952	951	951	951	951	951	950	950	**956**	**953**
May 15	950	949	949	949	948	948	948	947	946	946	945	944	943	942	942	941	941	941	940	941	943	943	944	945	940	950	945
May 16	946	947	948	948	949	950	951	951	951	952	952	952	951	951	951	950	950	949	949	949	949	950	950	950	946	952	950
May 17	950	949	949	950	950	950	950	950	950	950	950	949	949	948	948	947	947	947	947	947	948	948	948	948	947	950	949
May 18	948	948	948	948	948	947	948	947	947	947	947	946	946	945	945	944	944	943	943	942	942	942	942	941	941	948	945
May 19	941	940	940	940	939	940	940	940	940	940	940	940	940	940	941	941	941	942	942	943	944	945	945	945	939	945	941
May 20	946	946	946	946	947	947	947	947	947	947	947	947	946	946	946	945	945	944	944	944	944	944	944	944	944	947	946
May 21	943	943	943	943	942	942	942	942	942	941	941	940	940	939	939	939	938	938	938	938	938	940	941	940	938	943	941
May 22	939	939	940	939	939	939	939	939	940	940	940	941	941	941	941	942	942	942	943	943	943	944	943	943	939	944	941
May 23	943	942	942	942	942	941	941	941	941	942	942	942	941	941	941	941	941	941	940	940	940	940	940	940	940	943	941
May 24	940	940	940	939	940	940	941	941	941	941	941	941	941	941	942	942	942	942	942	942	943	943	944	944	939	944	941
May 25	944	944	945	945	945	945	946	946	946	946	946	945	945	945	945	945	945	945	945	944	944	944	944	944	944	946	945
May 26	944	944	943	943	943	943	943	943	942	942	942	941	941	940	940	939	939	938	938	937	937	937	937	937	937	944	941
May 27	937	937	937	937	937	937	937	937	937	937	937	937	937	936	936	936	935	935	934	934	934	934	934	934	934	937	936
May 28	934	933	933	933	933	933	933	933	933	933	933	933	933	933	933	933	934	933	933	933	933	933	933	933	933	934	933
May 29	933	932	932	932	933	933	933	933	933	933	933	933	933	933	933	933	933	933	934	934	935	935	935	935	932	935	933
May 30	935	936	936	936	936	936	936	936	936	936	936	937	936	936	935	935	935	935	935	936	936	936	937	937	935	937	936
May 31	937	937	937	938	939	940	941	940	940	940	941	941	941	940	940	940	939	939	939	939	939	940	940	940	937	941	939
Diurnal Maximum	954	955	955	955	955	955	956	956	955	955	952	955	954	953	953	953	953	953	952	952	953	953	954	954			
Diurnal Average	942	942	942	942	942	942	942	942	942	942	941	942	941	941	941	941	941	941	941	941	941	942	942	942			

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 - May 2023

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

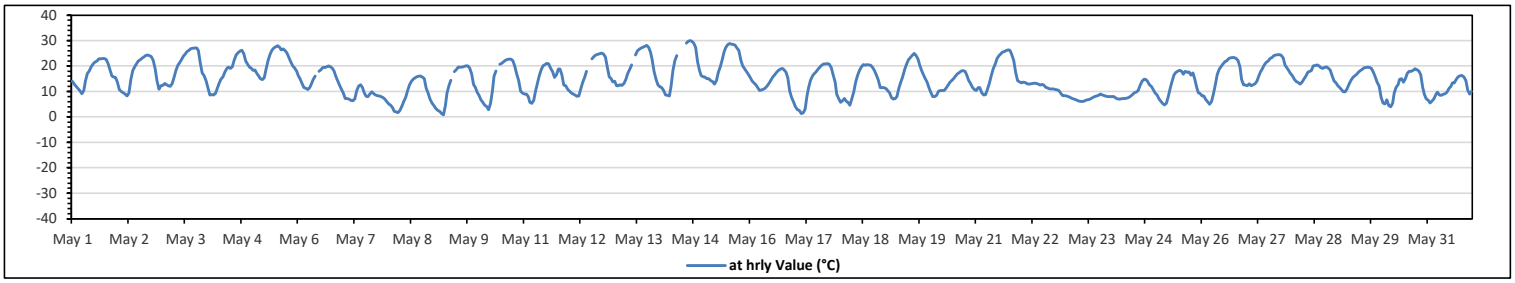
Maximum Hourly Value:	30.0	°C	on May 14 at hr 16	Hours in Service:	744	
Maximum Daily Value:	21.8	°C	on May 5	Hours of Data:	735	
Minimum Hourly Value:	0.9	°C	on May 9 at hr 5	Hours of Missing Data:	9	
Minimum Daily Value:	7.5	°C	on May 23	Hours of Calibration:	0	
Monthly Average:	15.0	°C		Operational Uptime:	98.8	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	14	13	12	11.1	10.3	9.2	10.5	14	17.1	18.1	19.7	20.8	21.6	22	22.8	22.8	23	23	22.6	21	18.5	16	15.7	15.6	9.2	23.0	17.3
May 2	13.7	10.8	10	9.5	9.1	8.2	9.4	14.6	18.2	19.7	21	21.9	22.5	23.1	23.6	24.1	24.3	24.1	23.8	22.3	18.9	14.1	10.9	12.3	8.2	24.3	17.1
May 3	12.4	13.2	12.7	12.3	12	13.1	15.6	18.3	20.3	21.2	22.5	23.9	24.8	25.7	26.3	26.8	27	27.1	27.1	26.1	21.2	17.3	16.2	14.3	12.0	27.1	19.9
May 4	11.4	8.7	8.8	8.7	9.3	11.5	13.3	14.9	15.8	17.7	19.1	19.6	19	19.7	22.4	24.3	25.3	25.9	26.2	24.9	22	20.7	19.6	19.2	8.7	26.2	17.8
May 5	18.4	18.5	17.1	16.1	15.1	14.6	15.5	19.1	22.3	24.6	26.3	27.1	27.6	28	27.4	26.4	26.7	26.1	25.1	23.3	21.5	20.1	19.2	18.1	14.6	28.0	**21.8**
May 6	16.3	14.9	13.2	11.6	11.3	10.7	11.6	12.9	14.7	16	K	18	18.6	19.4	19.5	19.8	20.1	19.7	19.1	18.1	15.9	14	12.5	10.9	10.7	20.1	15.6
May 7	9.4	7.2	7.2	7	6.5	6.4	7.1	10.4	12.1	12.7	11.5	9.6	8.1	8	9.1	9.9	9.2	8.7	8.4	8.3	7.9	7.6	7	6	6.0	12.7	8.6
May 8	5.1	4.6	3.7	2.3	2	1.7	2.6	4.2	6.2	7.8	10.4	12.6	14.1	14.9	15.5	15.8	16	16	15.7	15.1	11.3	9.4	7	5.4	1.7	16.0	9.1
May 9	4.5	3.4	2.6	2.3	1.3	**0.9**	4.5	9.4	12.3	14.5	K	17.8	18.6	19.6	19.6	19.6	19.9	20	20	19.2	16.9	12.8	11.5	9.8	**0.9**	20.0	12.2
May 10	8.5	6.7	5.8	4.6	4.1	2.8	5.3	10.3	16	18.1	K	20.7	21.1	21.7	22.2	22.6	22.7	22.7	22.1	19.9	16.8	14.3	10.1	9.4	2.8	22.7	14.3
May 11	9.1	9	8	5.8	5.3	6.5	9.7	13	16	18.5	20	20.6	21.1	20.8	19	17.8	15.6	16.5	18.8	18.8	16.5	12.5	12.3	10.9	5.3	21.1	14.3
May 12	10.1	9.3	9	8.7	8.1	8.3	11	13.5	15.6	17.9	K	K	22.8	23.7	24.3	24.6	24.9	25.1	24.8	23.6	19.6	15.8	15	13.8	8.1	25.1	16.8
May 13	14.1	12.2	12.3	12.7	12.4	13.2	14.7	17.2	18.7	20.5	K	24.4	26	26.6	27.1	27.4	27.8	28.1	27.4	25.5	22.6	18	14.9	12.6	12.2	28.1	19.8
May 14	11.9	11.6	10.4	8.7	8.5	8.3	11.9	18.2	22.1	24	K	26.5	K	K	29.1	29.7	**30**	29.8	29.1	27.4	21.7	18.4	16.3	15.9	8.3	**30.0**	19.5
May 15	15.7	15.1	15	14.3	13.9	12.9	14.3	17.5	19.8	22.5	25.6	27.3	28.3	28.9	28.6	28.5	28.2	27.1	26.1	22.5	20.1	18.9	17.8	16.7	12.9	28.9	21.1
May 16	15.4	14	13.4	12.6	11.5	10.5	10.6	10.9	11.4	12.3	13.2	14.4	15.7	16.6	17.6	18.3	18.8	19	18.6	17.7	15.5	10.1	7.6	5.9	5.9	19.0	13.8
May 17	3.9	2.8	2.6	1.3	1.6	3	8.3	11.6	14.5	16	16.9	17.7	18.7	19.6	20.3	20.9	20.9	21	20.7	19.3	16.4	13.7	8.9	7.2	1.3	21.0	12.8
May 18	5.7	6.4	7.2	6.2	5.7	4.6	7.1	9.8	13.6	16.3	18.4	19.7	20.6	20.3	20.6	20.5	20.3	19.4	18.2	16.4	14.5	11.6	11.6	11.6	4.6	20.6	13.6
May 19	11.2	10.4	9.5	7.7	7	7.2	7.9	11.3	13.7	15.8	18.6	20.7	22.5	23.4	24.2	25	24	22.7	20.5	18.4	16.5	14.9	13.8	11.6	7.0	25.0	15.8
May 20	9.6	8	8	8.5	10.1	10.4	10.4	10.5	11.4	12.5	13.5	14.3	15.1	16	16.9	17.4	18.1	18.2	17.9	16.5	14.4	13.2	11.7	10.7	8.0	18.2	13.1
May 21	10.4	11.5	11.6	9.5	8.7	8.8	10.9	13.3	16.3	18.9	20.7	22.9	24.1	24.9	25.5	25.7	26.1	26.4	26.2	24.5	22.3	17.5	14.3	13.8	8.7	26.4	18.1
May 22	13.4	13.6	13.5	13.1	13	13.1	13.2	13.3	13.2	12.9	12.5	12.8	12.5	11.7	11.4	11	11	11	10.8	10.6	10.3	9.2	8.4	8.4	8.4	13.6	11.8
May 23	8.2	8	7.6	7.2	7	6.7	6.4	6.2	6.2	6.2	6.5	6.7	6.8	7.2	7.7	7.9	8.2	8.5	9	8.7	8.4	8.1	8	7.9	6.2	9.0	**7.5**
May 24	7.9	8	7.5	7.1	7	7.1	7.2	7.2	7.4	7.7	8.1	8.8	9.5	9.7	10.4	12.4	14.1	14.7	14.7	14	12.7	12	10.8	9.4	7.0	14.7	9.8
May 25	8.6	7.1	6.1	5.3	4.8	5.3	7.9	11.3	14.1	16.5	17.4	18	18.3	18.1	16.8	17.9	17.5	17.7	16.4	17.3	14.7	11.6	9.5	9.2	4.8	18.3	12.8
May 26	8.3	8.2	6.9	6	5	6	9.1	12.7	16.7	18.7	19.9	20.8	21.7	22.1	22.8	23.2	23.3	23.3	23	22.3	19.8	14.8	12.7	12.5	5.0	23.3	15.8
May 27	12.2	13.1	12.2	12.7	13.1	14.1	15.9	17.7	18.9	20.4	21.4	22	22.9	23.4	24	24.3	24.5	24.5	24.2	23.2	20.3	19.4	18.3	17.1	12.2	24.5	19.2
May 28	16.1	14.7	13.9	13.5	12.9	13.7	14.9	16	17.6	17.9	18.2	20	20.2	20.4	20	19.4	19	19.5	19.8	19.2	18.5	16.2	14.2	13.4	12.9	20.4	17.1
May 29	12.3	11.5	10.8	9.9	9.9	11.2	12.9	14.4	15.6	16.2	16.8	17.5	18.2	18.7	19.3	19.4	19.6	19.5	19	17.5	15.7	13.5	12.1	7.8	7.8	19.6	15.0
May 30	5.5	5.1	6.7	4.5	3.9	5.3	9.4	11.7	12.6	14.7	15	13.6	15	17.2	18	17.9	18.3	18.9	18.6	18.1	16.5	11.7	9	7.1	3.9	18.9	12.3
May 31	6.6	5.5	6.3	7.1	8.8	9.7	8.7	8.5	8.9	9.2	9.8	11.1	12	13.4	13.4	14.7	15.8	16.2	16.3	15.7	14.3	10.4	9.1	10	5.5	16.3	10.9
Diurnal Maximum	18.4	18.5	17.1	16.1	15.1	14.6	15.9	19.1	22.3	24.6	26.3	27.3	28.3	28.9	29.1	29.7	30.0	29.8	29.1	27.4	22.6	20.7	19.6	19.2			
Diurnal Average	10.6	9.9	9.4	8.6	8.4	8.5	10.3	12.7	14.8	16.3	16.9	18.4	18.9	19.5	20.2	20.5	20.7	20.7	20.3	19.2	16.8	14.1	12.5	11.4			

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

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

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



Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

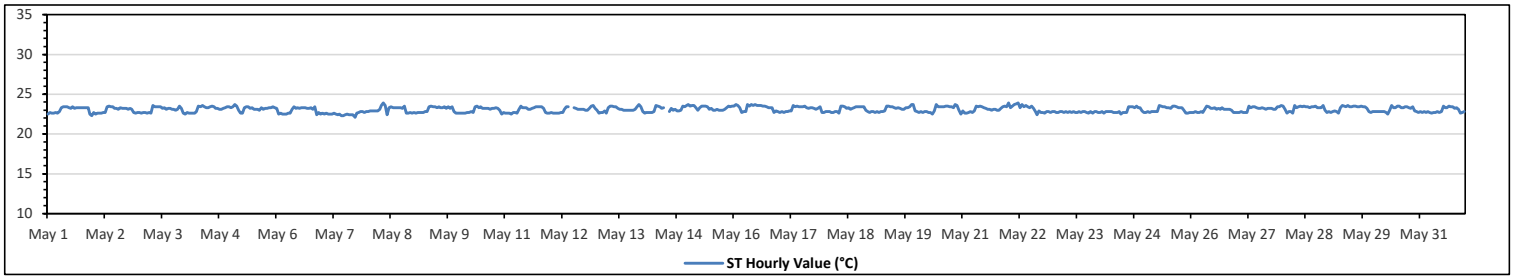
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	23.9	°C	on May 8 at hr 8	Hours in Service:	744	
Maximum Daily Value:	23.3	°C	on May 16	Hours of Data:	740	
Minimum Hourly Value:	22.1	°C	on May 7 at hr 17	Hours of Missing Data:	4	
Minimum Daily Value:	22.5	°C	on May 7	Hours of Calibration:	0	
Monthly Average:	23.1	°C		Operational Uptime:	99.5	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	22.5	22.7	22.6	22.6	22.7	22.6	22.8	23.3	23.4	23.4	23.4	23.3	23.2	23.4	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.3	22.5	22.3	22.3	23.4	23.0
May 2	22.7	22.5	22.6	22.6	22.6	22.7	22.7	23.4	23.5	23.4	23.4	23.2	23.2	23.1	23.3	23.2	23.2	23.2	23.1	23.2	23.1	22.7	22.6	22.7	22.5	23.5	23.0
May 3	22.7	22.6	22.7	22.7	22.6	22.7	22.6	23.6	23.4	23.4	23.4	23.4	23.2	23.3	23.1	23.2	23.2	23.1	23.1	23.0	23.1	23.5	23.2	22.6	22.6	23.6	23.1
May 4	22.5	22.7	22.6	22.6	22.6	22.6	22.8	23.5	23.4	23.6	23.4	23.3	23.3	23.4	23.5	23.4	23.2	23.2	23.1	23.1	23.2	23.3	23.4	23.4	22.5	23.6	23.1
May 5	23.3	23.4	23.7	23.5	23.0	22.6	22.6	23.3	23.4	23.4	23.2	23.3	23.1	23.1	23.1	23.0	23.3	23.1	23.2	23.2	23.3	23.3	23.4	23.3	22.6	23.7	23.2
May 6	23.2	22.5	22.6	22.5	22.5	22.5	22.6	22.6	23.1	23.4	23.2	23.3	23.2	23.3	23.3	23.3	23.2	23.2	23.3	23.1	23.4	22.4	22.7	22.5	22.4	23.4	23.0
May 7	22.6	22.5	22.6	22.5	22.5	22.5	22.6	22.5	22.4	22.5	22.3	22.3	22.4	22.5	22.4	22.4	22.4	**22.1**	22.6	22.7	22.8	22.8	22.7	22.8	**22.1**	22.8	**22.5**
May 8	22.8	22.9	22.9	22.9	22.9	22.9	23.1	23.6	**23.9**	23.6	22.4	23.3	23.4	23.3	23.3	23.3	23.3	23.3	23.2	23.5	22.6	22.6	22.7	22.6	22.4	**23.9**	23.1
May 9	22.7	22.6	22.7	22.7	22.7	22.7	22.8	22.8	23.4	23.5	23.4	23.4	23.3	23.4	23.3	23.3	23.4	23.2	23.4	23.2	23.4	22.8	22.6	22.6	22.6	23.5	23.1
May 10	22.6	22.6	22.6	22.6	22.7	22.7	22.8	22.7	23.4	23.5	23.3	23.4	23.2	23.2	23.2	23.2	23.1	23.2	23.2	23.3	23.2	23.0	22.5	22.7	22.5	23.5	23.0
May 11	22.6	22.6	22.6	22.5	22.7	22.7	22.6	23.1	23.5	23.3	23.3	23.3	23.1	23.1	23.2	23.3	23.4	23.4	23.4	23.4	23.2	22.7	22.6	22.6	22.5	23.5	23.0
May 12	22.7	22.6	22.6	22.6	22.6	22.7	22.7	23.1	23.4	23.4	**K**	**K**	23.3	23.2	23.1	23.1	23.1	23.1	23.0	23.0	23.2	23.5	23.6	23.2	22.6	23.6	23.0
May 13	23.0	22.6	22.7	22.7	22.9	22.6	23.3	23.5	23.5	23.4	23.4	23.2	23.1	23.1	23.0	23.0	23.0	23.0	23.0	23.0	23.1	23.4	23.7	23.4	22.6	23.7	23.1
May 14	22.8	22.6	22.7	22.7	22.7	22.7	22.8	23.6	23.5	23.4	23.2	23.3	**K**	**K**	22.8	23.2	23.0	23.1	22.9	22.9	23.0	23.5	23.4	23.6	22.6	23.6	23.1
May 15	23.7	23.5	23.6	23.6	23.3	23.0	23.3	23.5	23.5	23.5	23.4	23.1	23.2	23.0	23.0	23.1	23.0	23.0	23.0	23.1	23.3	23.5	23.4	23.5	23.0	23.7	23.3
May 16	23.5	23.7	23.6	23.3	22.7	22.8	22.8	23.7	23.5	23.7	23.6	23.7	23.6	23.6	23.6	23.5	23.5	23.4	23.3	23.3	23.3	22.7	22.9	22.8	22.7	23.7	**23.3**
May 17	22.7	22.8	22.7	22.8	22.8	22.9	22.9	23.6	23.4	23.5	23.4	23.4	23.4	23.5	23.3	23.2	23.3	23.3	23.2	23.1	23.2	23.4	22.7	22.7	22.7	23.6	23.1
May 18	22.8	22.8	22.8	22.7	22.7	22.8	22.8	22.6	23.5	23.5	23.4	23.2	23.3	23.1	23.2	23.3	23.4	23.4	23.4	23.4	23.4	23.0	22.8	22.7	22.6	23.5	23.1
May 19	22.8	22.8	22.7	22.8	22.7	22.8	22.8	22.9	23.5	23.5	23.4	23.4	23.3	23.2	23.3	23.2	23.1	23.1	23.3	23.3	23.4	23.7	23.7	22.9	22.7	23.7	23.2
May 20	22.8	22.7	22.8	22.7	22.8	22.8	22.7	22.7	22.5	22.9	23.7	23.4	23.4	23.4	23.4	23.5	23.5	23.4	23.4	23.3	23.7	23.6	23.0	22.5	22.5	23.7	23.1
May 21	22.9	22.6	22.6	22.7	22.8	22.7	22.9	23.5	23.4	23.5	23.4	23.3	23.2	23.1	23.1	23.0	23.1	23.1	23.0	23.0	23.2	23.4	23.5	23.4	22.6	23.5	23.1
May 22	**23.9**	23.3	23.5	23.7	23.8	**23.9**	23.3	23.7	23.4	23.6	23.4	23.3	23.5	23.2	22.8	22.4	22.9	22.7	22.7	22.6	22.8	22.8	22.7	22.8	22.4	**23.9**	23.2
May 23	22.8	22.7	22.7	22.8	22.8	22.7	22.8	22.7	22.8	22.7	22.8	22.7	22.7	22.8	22.7	22.8	22.8	22.7	22.6	22.8	22.6	22.8	22.8	22.7	22.6	22.8	22.7
May 24	22.7	22.8	22.6	22.8	22.8	22.8	22.8	22.7	22.7	22.7	22.8	22.5	22.7	22.7	22.7	23.4	23.4	23.4	23.3	23.5	23.3	23.3	22.9	22.7	22.5	23.5	22.9
May 25	22.7	22.8	22.7	22.8	22.8	22.8	22.8	23.6	23.5	23.4	23.4	23.3	23.3	23.2	23.5	23.5	23.4	23.3	23.3	23.3	23.0	22.6	22.6	22.7	22.6	23.6	23.1
May 26	22.7	22.7	22.8	22.7	22.7	22.8	22.7	23.1	23.5	23.4	23.2	23.2	23.3	23.1	23.2	23.1	23.3	23.1	23.1	23.1	23.1	23.0	22.7	22.7	22.7	23.5	23.0
May 27	22.7	22.7	22.8	22.7	22.7	22.7	23.5	23.3	23.4	23.4	23.3	23.2	23.2	23.3	23.2	23.1	23.2	23.2	23.2	23.1	23.1	23.4	23.4	23.6	22.7	23.6	23.1
May 28	23.5	23.1	22.6	22.8	22.8	22.6	23.6	23.3	23.4	23.5	23.4	23.5	23.4	23.4	23.3	23.4	23.4	23.5	23.3	23.3	23.3	23.6	23.0	22.7	22.6	23.6	23.2
May 29	22.8	22.7	22.8	22.9	22.8	22.6	23.3	23.6	23.5	23.4	23.6	23.4	23.4	23.5	23.5	23.4	23.4	23.5	23.4	23.4	23.2	22.8	22.7	22.8	22.6	23.6	23.2
May 30	22.8	22.8	22.8	22.8	22.8	22.8	22.7	22.5	23.0	23.6	23.3	23.3	23.5	23.5	23.3	23.3	23.4	23.4	23.3	23.2	23.4	22.9	22.8	22.7	22.5	23.6	23.1
May 31	22.8	22.7	22.8	22.7	22.8	22.7	22.6	22.7	22.7	22.8	22.7	22.8	23.5	23.3	23.3	23.5	23.4	23.4	23.2	23.3	23.1	22.6	22.7	22.8	22.6	23.5	23.0
Diurnal Maximum	23.9	23.7	23.7	23.7	23.8	23.9	23.6	23.7	23.9	23.7	23.7	23.7	23.6	23.6	23.6	23.5	23.5	23.5	23.4	23.5	23.7	23.7	23.7	23.6			
Diurnal Average	22.9	22.8	22.8	22.8	22.8	22.8	22.9	23.2	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.1	23.0	22.9			

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

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



Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

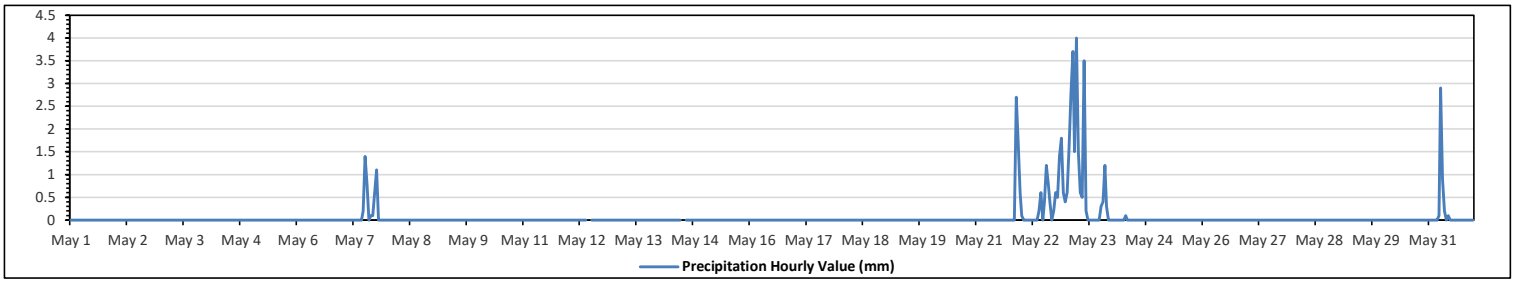
PRECIPITATION in mm

Maximum Hourly Value:	4.0	mm	on May 23 at hr 5	Hours in Service:	744		
Maximum Daily Value:	22.7	mm	on May 23	Hours of Data:	740		
Minimum Hourly Value:	0.0	mm	on May 1 at hr 0	Hours of Missing Data:	4		
Minimum Daily Value:	0.0	mm	on May 1	Hours of Calibration:	0		
Monthly Total:	45.5	mm		Operational Uptime:	99.5		

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Total
May 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
May 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
May 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
May 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
May 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
May 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
May 7	0	0	0	0	0	0	0	0	0	0	0	0.2	1.4	0.8	0	0.1	0.1	0.6	1.1	0	0	0	0	0	0.0	1.4	4.3
May 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
May 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 12	0	0	0	0	0	0	0	0	0	0	K	K	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 14	0	0	0	0	0	0	0	0	0	0	0	0	K	K	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 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
May 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.7	1.7	0.6	0.0	2.7	5.0
May 22	0.1	0	0	0	0	0	0	0	0	0.2	0.6	0	0.4	1.2	0.8	0.4	0	0.2	0.6	0.5	1.4	1.8	0.6	0.4	0.0	1.8	9.2
May 23	0.6	1.6	2.8	3.7	1.5	4	1.5	0.6	0.5	3.5	0.2	0	0	0	0	0	0	0	0.3	0.4	1.2	0.3	0	0	0.0	**4.0**	**22.7**
May 24	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
May 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 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
May 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
May 31	0	0	0	0	0	0.1	2.9	0.9	0.2	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	2.9	4.2
Diurnal Maximum	0.6	1.6	2.8	3.7	1.5	4.0	2.9	0.9	0.5	3.5	0.6	0.2	1.4	1.2	0.8	0.4	0.1	0.6	1.1	0.5	1.4	2.7	1.7	0.6			
Diurnal Average	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	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

986-C Station - May 2023

Summary of Hourly Averages

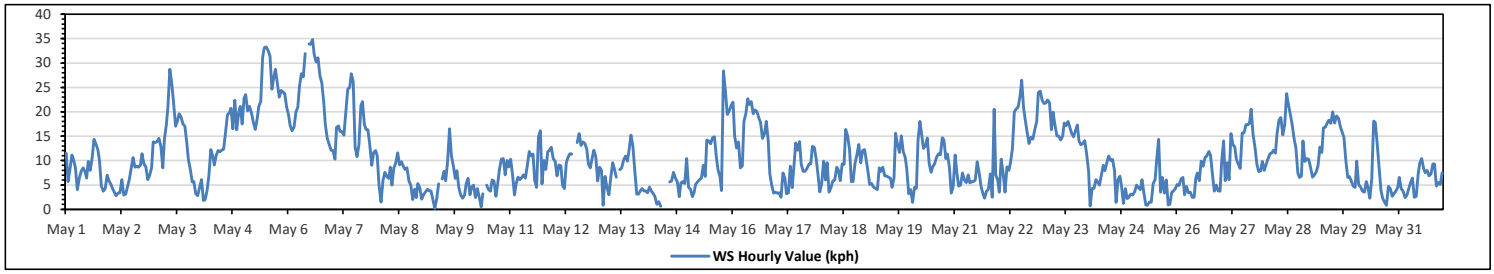
VECTOR WIND SPEED (VWS) in km/hr

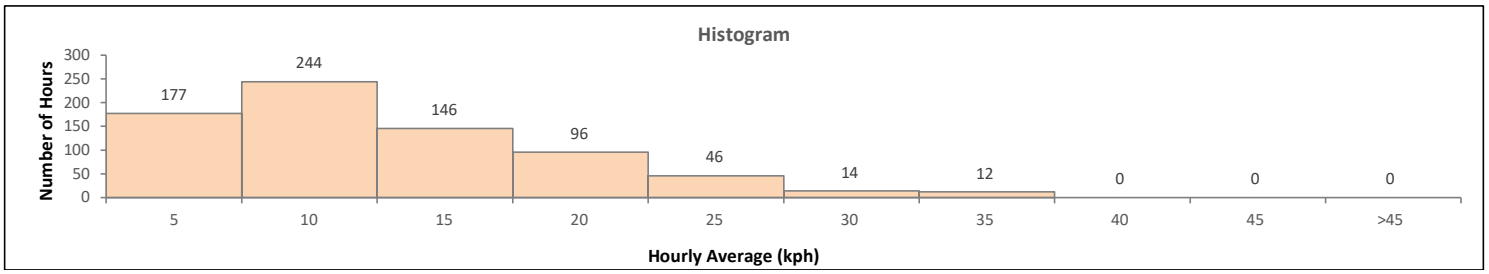
Maximum Hourly Value:	34.8	kph	on May 6 at hr 13	Hours in Service:	744	
Maximum Daily Value:	24.5	kph	on May 5	Hours of Data:	735	
Minimum Hourly Value:	0.2	kph	on May 9 at hr 7	Hours of Missing Data:	9	
Minimum Daily Value:	4.3	kph	on May 25	Hours of Calibration:	0	
Monthly Average:	3.2	kph		Operational Uptime:	98.8	

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
May 1	11.5	5.7	8.3	11.1	10.2	8.5	4.0	6.3	7.8	8.5	7.7	6.4	9.8	8.0	10.4	14.3	13.4	12.2	10.1	4.8	3.7	4.2	7.0	5.8	3.7	14.3	8.3
May 2	5.1	4.2	3.6	2.8	3.3	3.4	6.1	2.9	3.1	4.4	6.0	8.3	10.6	8.6	8.8	8.6	9.0	11.4	9.3	8.7	6.1	7.0	8.5	13.8	2.8	13.8	6.8
May 3	13.7	13.9	14.5	12.9	8.5	14.3	17.3	21.0	28.7	25.8	21.6	17.0	18.2	19.6	18.9	17.5	17.0	13.6	10.2	8.2	5.6	5.7	3.2	2.8	2.8	28.7	14.6
May 4	4.5	6.1	1.8	1.9	3.7	6.9	12.2	10.9	9.1	11.1	12.0	11.8	12.1	12.3	15.7	19.4	19.8	20.7	16.5	22.3	16.3	19.8	21.1	17.5	1.8	22.3	12.7
May 5	22.8	23.5	20.2	21.1	19.8	17.8	16.4	18.6	21.1	22.1	31.2	33.1	33.3	32.6	31.4	24.6	26.7	28.7	25.8	23.0	24.4	24.0	23.7	21.0	16.4	33.3	**24.5**
May 6	19.3	17.2	16.1	16.8	19.9	21.0	25.2	27.8	27.1	31.9	K	33.9	33.8	**34.8**	31.8	30.2	31.1	27.4	25.9	21.9	17.3	14.5	13.3	12.1	12.1	**34.8**	23.9
May 7	12.0	10.3	16.8	17.1	16.0	15.9	15.2	20.0	24.6	25.0	27.8	26.2	12.8	10.8	13.3	21.2	22.1	17.4	16.4	16.3	13.1	9.0	11.7	12.0	9.0	27.8	16.8
May 8	11.0	4.7	1.5	5.9	7.6	6.7	6.3	8.6	5.0	8.5	9.5	11.6	9.1	9.7	8.9	8.2	8.5	5.9	4.9	2.0	4.1	2.4	5.3	4.4	1.5	11.6	6.7
May 9	2.1	3.0	3.6	4.1	3.8	3.8	2.0	**0.2**	2.2	5.2	K	6.2	7.8	5.9	9.8	16.5	10.9	8.9	6.3	7.9	4.5	2.9	2.3	2.9	**0.2**	16.5	5.3
May 10	5.2	6.3	3.0	4.6	5.0	2.4	4.2	2.5	0.5	3.2	K	5.0	4.0	3.7	6.0	5.8	2.7	5.0	8.2	10.3	10.4	7.1	10.0	8.7	0.5	10.4	5.4
May 11	10.3	7.1	2.9	5.2	6.6	6.1	6.5	7.1	6.4	8.9	11.9	10.9	11.3	6.0	4.5	14.9	16.1	5.2	10.0	8.2	11.8	12.1	12.7	10.4	2.9	16.1	8.9
May 12	9.9	6.9	9.1	8.9	5.0	4.2	9.6	10.6	11.4	11.3	K	K	13.7	15.5	13.1	13.8	13.5	12.3	9.3	8.5	10.3	12.1	10.8	5.8	4.2	15.5	10.3
May 13	8.6	8.0	0.8	6.7	4.5	3.0	6.5	9.6	8.4	6.6	K	8.1	8.5	10.1	10.9	9.9	12.1	15.2	13.0	7.9	3.1	3.1	3.8	4.2	0.8	15.2	7.5
May 14	3.8	3.8	3.4	4.6	3.7	3.2	2.6	1.0	1.6	0.6	K	4.1	K	K	5.6	5.8	7.6	6.4	5.6	2.6	5.4	5.7	5.3	10.4	0.6	10.4	4.4
May 15	4.5	4.1	2.6	3.4	5.1	5.6	6.1	6.4	9.0	6.7	14.2	14.0	13.4	14.7	14.9	10.6	8.1	6.8	3.9	28.4	24.4	19.5	20.1	21.3	2.6	28.4	11.2
May 16	22.0	15.1	12.6	13.8	8.5	8.9	18.0	19.6	22.7	21.5	22.1	19.6	20.4	20.0	18.7	17.8	14.5	15.4	18.0	14.0	7.3	4.9	3.3	3.5	3.3	22.7	15.1
May 17	3.3	3.4	2.5	7.4	6.4	3.2	3.4	8.8	4.4	8.6	13.6	12.1	13.9	9.3	7.8	7.8	8.4	9.2	9.4	12.9	12.7	10.3	6.8	3.6	2.5	13.9	7.9
May 18	5.2	9.9	6.0	9.6	3.5	4.4	5.8	6.0	8.6	8.1	5.9	9.3	9.2	16.4	15.1	12.3	5.7	5.7	9.4	11.1	13.3	9.6	12.0	12.2	3.5	16.4	8.9
May 19	10.2	7.6	5.1	5.3	4.6	4.3	4.0	8.5	7.8	8.6	6.9	6.8	6.6	6.3	4.5	6.4	15.6	13.3	11.7	15.1	11.8	10.7	8.2	3.2	3.2	15.6	8.0
May 20	4.0	1.4	4.5	4.3	14.1	18.0	15.5	12.5	13.0	14.6	9.4	7.6	8.7	9.4	10.7	11.4	11.2	14.7	14.2	10.4	11.3	8.7	3.3	4.7	1.4	18.0	9.9
May 21	11.1	7.2	4.8	5.0	7.4	6.0	5.5	7.1	5.4	5.7	5.7	6.0	9.7	7.5	4.7	3.2	2.3	3.7	4.1	7.3	2.5	20.5	7.0	6.0	2.3	20.5	6.5
May 22	3.5	10.3	7.4	3.5	8.7	8.0	9.6	12.4	20.0	20.6	21.0	23.2	26.5	20.8	18.4	15.8	13.5	14.8	14.4	16.4	18.0	23.9	24.3	22.3	3.5	26.5	15.7
May 23	21.7	21.8	22.4	21.8	16.3	19.9	17.3	15.1	15.0	14.2	15.0	17.7	17.2	18.0	16.7	15.6	14.9	16.1	17.3	14.0	13.2	13.5	14.1	11.4	11.4	22.4	16.7
May 24	7.9	0.7	4.2	4.3	6.1	5.6	5.0	7.0	9.0	7.9	9.6	10.9	10.0	10.2	8.0	1.4	6.1	6.8	4.8	1.2	4.2	2.2	2.6	3.1	0.7	10.9	5.8
May 25	2.9	3.6	5.0	4.4	4.0	6.1	3.3	0.9	0.8	1.5	1.5	5.3	6.1	10.3	14.3	3.5	6.5	3.3	6.0	0.9	1.0	3.5	3.7	4.2	0.8	14.3	**4.3**
May 26	5.1	4.9	6.2	6.5	3.0	4.7	3.4	3.5	2.5	2.5	6.3	7.4	5.9	9.9	8.8	10.6	11.0	11.9	11.1	7.3	3.7	5.0	3.8	3.7	2.5	11.9	6.2
May 27	9.8	14.0	5.9	9.6	6.1	15.5	13.3	12.8	10.3	9.2	8.4	15.6	15.7	17.4	17.3	17.6	20.5	15.4	12.8	9.2	7.7	7.9	9.8	8.0	5.9	20.5	12.1
May 28	9.2	10.4	11.4	11.6	12.1	11.5	15.5	18.3	18.8	15.3	17.4	23.7	21.7	19.7	17.5	14.6	12.6	7.4	6.5	6.8	14.0	9.8	10.4	10.2	6.5	23.7	13.6
May 29	8.5	6.6	7.0	7.6	8.9	12.8	11.7	16.7	16.8	17.7	18.3	17.6	20.0	17.7	19.1	18.7	16.9	15.9	14.8	10.0	6.5	6.7	5.8	4.8	4.8	20.0	12.8
May 30	4.5	9.9	5.1	4.6	3.7	3.5	5.7	4.5	2.3	6.2	18.1	17.8	13.4	8.5	3.8	2.3	1.5	0.8	4.7	4.2	2.7	3.2	3.7	4.4	0.8	18.1	5.8
May 31	6.5	4.2	3.7	2.4	2.9	4.1	5.4	6.4	2.5	2.7	7.2	9.5	10.4	8.4	7.5	8.0	6.9	7.3	9.3	9.3	4.8	5.5	5.1	7.5	2.4	10.4	6.1
Diurnal Maximum	22.8	23.5	22.4	21.8	19.9	21.0	25.2	27.8	28.7	31.9	31.2	33.9	33.8	34.8	31.8	30.2	31.1	28.7	25.9	28.4	24.4	24.0	24.3	22.3			
Diurnal Average	9.0	8.3	7.2	8.0	7.7	8.4	9.1	10.1	10.5	11.1	13.1	13.6	13.8	13.4	12.8	12.5	12.5	11.6	11.1	10.7	9.5	9.5	9.1	8.6			

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.



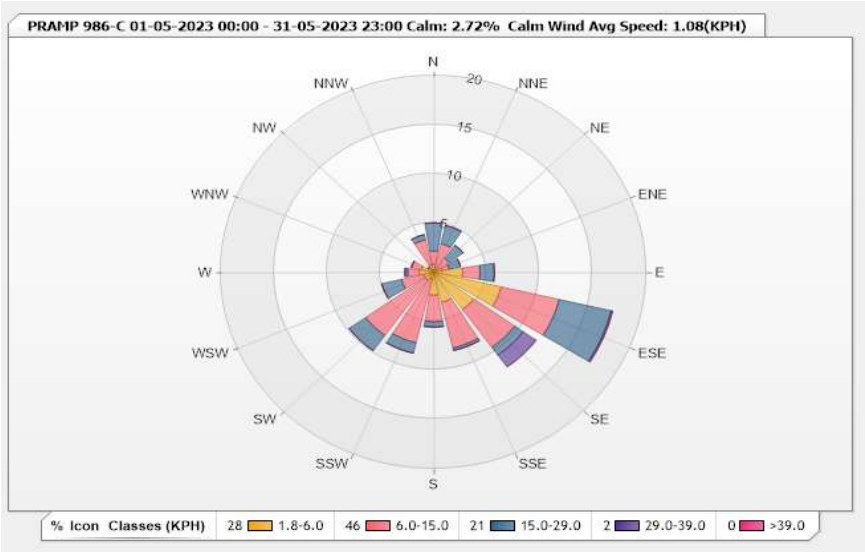


Station: PRAMP 986-C Monitor: WDS [KPH] Monthly: 05-2023

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

Calm (WS<1.8kph): 2.72% Valid Data: 98.79%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.82	1.36	2.86	0	0	5.04
NNE	0.41	2.59	1.9	0	0	4.9
NE	0.41	1.36	1.63	0	0	3.4
ENE	0.82	0.68	1.09	0	0	2.59
E	2.72	1.63	1.36	0	0	5.71
ESE	6.53	5.58	5.03	0.14	0	17.28
SE	4.63	4.76	0.95	1.5	0	11.84
SSE	3.13	4.76	0.27	0	0	8.16
S	2.31	2.72	0.54	0	0	5.57
SSW	0.68	6.67	1.09	0	0	8.44
SW	0.95	6.94	1.9	0	0	9.79
WSW	0.95	2.18	1.9	0	0	5.03
W	1.36	1.09	0.27	0	0	2.72
WNW	1.22	0.95	0	0	0	2.17
NW	0.27	0.41	0	0	0	0.68
NNW	0.82	2.59	0.54	0	0	3.95
Summary	28.03	46.27	21.33	1.64	0	97.27



Peace River Area Monitoring Program

986-C Station - May 2023

Summary of Hourly Averages

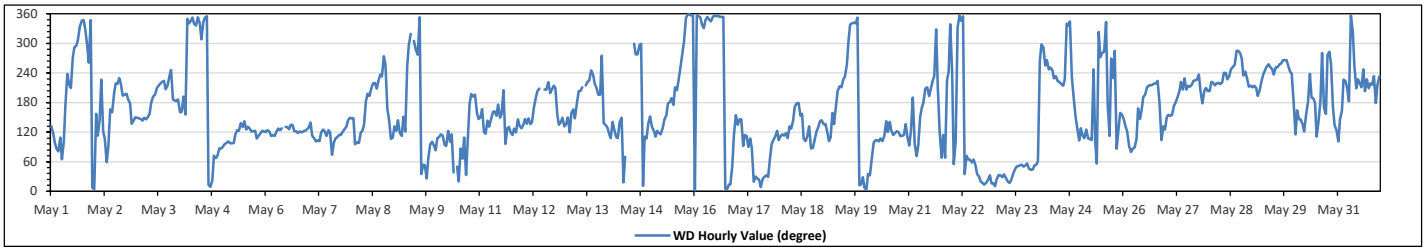
WIND DIRECTION (VWD) in sector

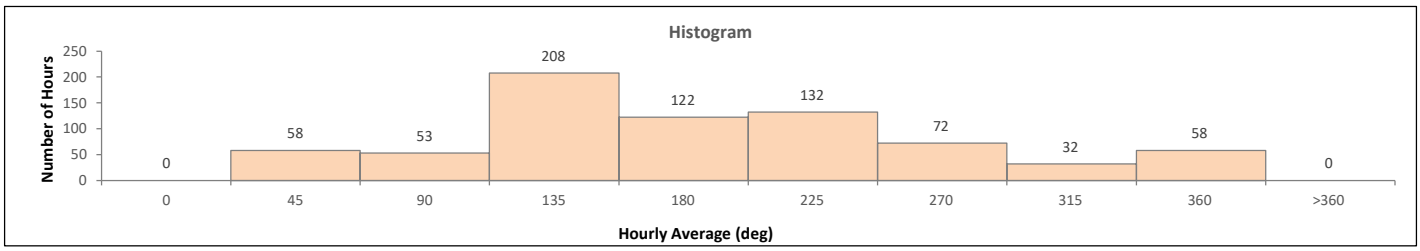
Monthly Average:	135 (SE)	degree	
Hours in Service:	744		
Hours of Data:	735		
Hours of Missing Data:	9		
Hours of Calibration:	0		
Operational Uptime:	98.8		

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
May 1	SE	ESE	E	E	E	ESE	ENE	E	S	SW	SW	SSW	W	WNW	WNW	NW	NNW	NNW	NNW	NNW	WNW	W	NNW	N	337	NNW
May 2	N	SSE	ESE	SE	SW	ESE	ESE	ENE	E	SSE	SSE	SSW	SW	SW	SW	SW	SSW	SSW	SSW	S	S	SE	SE	SSE	178	S
May 3	SSE	SE	SE	SE	SSE	SE	SSE	SSE	S	S	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SW	WSW	S	S	S	S	188	S
May 4	SSE	SSE	S	SSE	N	NNW	NNW	N	NNW	NNW	N	NNW	NW	NNW	N	N	NNE	N	NNE	ENE	ENE	ENE	E	E	21	NNE
May 5	E	E	E	E	E	E	E	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	118	ESE
May 6	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	SE	K	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	124	ESE
May 7	SE	SE	ESE	ESE	E	ESE	E	ESE	SE	ESE	ESE	ESE	ESE	ENE	E	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	116	ESE
May 8	SE	SE	E	E	E	ESE	ESE	SE	S	SSW	S	SSW	SW	SW	SSW	SW	SW	SW	W	WSW	SSE	SE	ESE	ESE	179	S
May 9	SE	ESE	SE	ESE	ESE	SSE	ESE	WSW	WNW	NW	K	WNW	WNW	W	N	NE	NE	NE	NNE	ENE	E	E	E	E	44	NE
May 10	ESE	ESE	ESE	ESE	E	E	ESE	E	ESE	NE	K	NE	NNE	E	ENE	ESE	NNE	E	S	SSW	S	SSW	SSE	SE	129	SE
May 11	SSE	SSE	ESE	ESE	SE	SE	SE	SSE	SSE	SSE	S	SSE	SSE	SSW	E	SE	SE	ESE	ESE	SE	ESE	SE	SE	SE	141	SE
May 12	SE	SE	SE	SE	SE	SE	SSE	S	SSW	SSW	K	K	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSE	SE	SE	SSE	SE	179	S
May 13	SE	SSE	ESE	SSE	SSE	SE	S	SSW	SSW	SSW	K	SSW	SW	SW	WSW	SW	SW	SSW	SSW	SSW	W	SE	SE	SE	199	SSW
May 14	ESE	ESE	SE	SE	ESE	ESE	SE	SSE	NNE	ENE	K	NNW	K	K	WNW	W	W	WNW	WNW	NNE	ESE	ESE	SE	SSE	133	SE
May 15	SE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	S	S	S	S	SSW	SSW	SW	WSW	W	WNW	N	N	N	N	N	281	W
May 16	N	N	N	N	NNW	NNW	NNW	N	NNW	NNW	N	N	N	N	N	N	N	N	N	NNE	NNE	NE	ESE	SSE	356	N
May 17	SE	SE	SE	E	ESE	ESE	E	ESE	E	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	ENE	E	ESE	ESE	ESE	ESE	65	ENE
May 18	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	S	S	S	SSE	SSE	ESE	E	ESE	SE	E	E	ESE	ESE	SE	SE	SE	126	SE
May 19	SE	SE	ESE	E	ESE	SSE	SE	S	SSW	SSW	SSW	SW	SW	WSW	WNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	N	344	NNW
May 20	N	NE	NNE	ENE	E	ESE	ESE	E	ESE	E	ESE	SE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	110	ESE
May 21	E	ESE	S	E	ENE	E	SSE	SSE	S	SSW	SSW	S	SSW	SW	SW	NNW	SSW	ESE	ENE	ESE	ENE	ESE	SW	WSW	173	S
May 22	WSW	NE	E	NNW	N	NNW	N	NE	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	36	NE
May 23	N	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	38	NE
May 24	ENE	W	WNW	WNW	WSW	W	WSW	WSW	WSW	SW	SW	SW	SW	SW	SSW	SW	NNW	NNW	NNW	SW	S	SSE	SE	ESE	243	WSW
May 25	SE	ESE	ESE	SE	ESE	ESE	ESE	WSW	E	NE	NW	W	W	W	NNW	S	ESE	W	SW	WNW	E	SE	SSE	SSE	151	SSE
May 26	SE	SE	ESE	E	E	E	E	ESE	SSE	SE	SSE	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	S	ESE	SE	SE	179	S
May 27	SSE	SSE	SSE	SSE	S	S	S	SSW	SW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SSW	S	SSW	SSW	SSW	203	SSW
May 28	SSW	SW	SW	SSW	SW	SW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WNW	WNW	W	W	SW	WSW	SW	SSW	SSW	237	SW
May 29	SSW	SSW	SSW	S	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	W	W	W	WSW	WSW	WSW	S	245	WSW
May 30	ESE	SSE	SE	SE	SE	ESE	SSE	S	SW	S	S	S	ESE	SE	S	W	SSE	SSE	W	W	WSW	S	SE	ESE	166	SSE
May 31	E	SE	SSE	SW	SW	SSW	S	N	NW	WSW	SSW	SW	SW	SSW	WSW	SSW	SW	SSW	SW	SW	SW	S	SW	SW	214	SSW

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 - May 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	34.8	kph	on May 6 at hr 13	Hours in Service:	744
Maximum Daily Value:	24.5	kph	on May 5	Hours of Data:	735
Minimum Hourly Value:	0.2	kph	on May 9 at hr 7	Hours of Missing Data:	9
Minimum Daily Value:	4.3	kph	on May 25	Hours of Calibration:	0
Monthly Average:	3.2	kph		Operational Uptime:	98.8

WIND DIRECTION

Monthly Average: 135 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			
May 1	11.5	5.7	8.3	11.1	10.2	8.5	4.0	6.3	7.8	8.5	7.7	6.4	9.8	8.0	10.4	14.3	13.4	12.2	10.1	4.8	3.7	4.2	7.0	5.8	3.7	14.3	8.3
	SE	ESE	E	E	E	ESE	ENE	E	S	SW	SW	SSW	W	WNW	WNW	NW	NNW	NNW	NNW	NNW	WNW	W	NNW	N			
May 2	5.1	4.2	3.6	2.8	3.3	3.4	6.1	2.9	3.1	4.4	6.0	8.3	10.6	8.6	8.8	8.6	9.0	11.4	9.3	8.7	6.1	7.0	8.5	13.8	2.8	13.8	6.8
	N	SSE	ESE	SE	SW	ESE	ESE	ENE	E	SSE	SSE	SSW	SW	SW	SW	SW	SSW	SSW	SSW	S	S	SE	SE	SSE			
May 3	13.7	13.9	14.5	12.9	8.5	14.3	17.3	21.0	28.7	25.8	21.6	17.0	18.2	19.6	18.9	17.5	17.0	13.6	10.2	8.2	5.6	5.7	3.2	2.8	2.8	28.7	14.6
	SSE	SE	SE	SE	SSE	SE	SSE	SSE	S	S	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SW	WSW	S	S	S	S			
May 4	4.5	6.1	1.8	1.9	3.7	6.9	12.2	10.9	9.1	11.1	12.0	11.8	12.1	12.3	15.7	19.4	19.8	20.7	16.5	22.3	16.3	19.8	21.1	17.5	1.8	22.3	12.7
	SSE	SSE	S	SSE	N	NNW	NNW	N	NNW	NNW	N	NNW	NW	NNW	N	N	NNE	N	NNE	ENE	ENE	ENE	E	E			
May 5	22.8	23.5	20.2	21.1	19.8	17.8	16.4	18.6	21.1	22.1	31.2	33.1	33.3	32.6	31.4	24.6	26.7	28.7	25.8	23.0	24.4	24.0	23.7	21.0	16.4	33.3	**24.5**
	E	E	E	E	E	E	E	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE			
May 6	19.3	17.2	16.1	16.8	19.9	21.0	25.2	27.8	27.1	31.9	K	33.9	33.8	**34.8**	31.8	30.2	31.1	27.4	25.9	21.9	17.3	14.5	13.3	12.1	12.1	**34.8**	23.9
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	SE	K	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE			
May 7	12.0	10.3	16.8	17.1	16.0	15.9	15.2	20.0	24.6	25.0	27.8	26.2	12.8	10.8	13.3	21.2	22.1	17.4	16.4	16.3	13.1	9.0	11.7	12.0	9.0	27.8	16.8
	SE	SE	ESE	ESE	E	ESE	E	ESE	SE	ESE	ESE	ESE	ESE	ENE	E	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SSE			
May 8	11.0	4.7	1.5	5.9	7.6	6.7	6.3	8.6	5.0	8.5	9.5	11.6	9.1	9.7	8.9	8.2	8.5	5.9	4.9	2.0	4.1	2.4	5.3	4.4	1.5	11.6	6.7
	SE	SE	E	E	E	ESE	ESE	SE	S	SSW	S	SSW	SW	SW	SSW	SW	SW	SW	W	WSW	SSE	SE	ESE	ESE			
May 9	2.1	3.0	3.6	4.1	3.8	3.8	2.0	**0.2**	2.2	5.2	K	6.2	7.8	5.9	9.8	16.5	10.9	8.9	6.3	7.9	4.5	2.9	2.3	2.9	**0.2**	16.5	5.3
	SE	ESE	SE	ESE	ESE	SSE	ESE	WSW	WNW	NW	K	WNW	WNW	W	N	NE	NE	NE	NNE	ENE	E	E	E	E			
May 10	5.2	6.3	3.0	4.6	5.0	2.4	4.2	2.5	0.5	3.2	K	5.0	4.0	3.7	6.0	5.8	2.7	5.0	8.2	10.3	10.4	7.1	10.0	8.7	0.5	10.4	5.4
	ESE	ESE	ESE	ESE	E	E	ESE	E	ESE	NE	K	NE	NNE	E	ENE	ESE	NNE	E	S	SSW	S	SSW	SSE	SE			
May 11	10.3	7.1	2.9	5.2	6.6	6.1	6.5	7.1	6.4	8.9	11.9	10.9	11.3	6.0	4.5	14.9	16.1	5.2	10.0	8.2	11.8	12.1	12.7	10.4	2.9	16.1	8.9
	SSE	SSE	ESE	ESE	SE	SE	SE	SSE	SSE	SSE	S	SSE	SSE	SSW	E	SE	SE	ESE	ESE	SE	ESE	SE	SE	SE			
May 12	9.9	6.9	9.1	8.9	5.0	4.2	9.6	10.6	11.4	11.3	K	K	13.7	15.5	13.1	13.8	13.5	12.3	9.3	8.5	10.3	12.1	10.8	5.8	4.2	15.5	10.3
	SE	SE	SE	SE	SE	SE	SSE	S	SSW	SSW	K	K	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSE	SE	SE	SSE	SE			
May 13	8.6	8.0	0.8	6.7	4.5	3.0	6.5	9.6	8.4	6.6	K	8.1	8.5	10.1	10.9	9.9	12.1	15.2	13.0	7.9	3.1	3.1	3.8	4.2	0.8	15.2	7.5
	SE	SSE	ESE	SSE	SSE	SE	S	SSW	SSW	SSW	K	SSW	SW	SW	WSW	SW	SW	SSW	SSW	SSW	W	SE	SE	SE			
May 14	3.8	3.8	3.4	4.6	3.7	3.2	2.6	1.0	1.6	0.6	K	4.1	K	K	5.6	5.8	7.6	6.4	5.6	2.6	5.4	5.7	5.3	10.4	0.6	10.4	4.4
	ESE	ESE	SE	SE	ESE	ESE	SE	SSE	NNE	ENE	K	NNW	K	K	WNW	W	W	WNW	WNW	NNE	ESE	ESE	SE	SSE			
May 15	4.5	4.1	2.6	3.4	5.1	5.6	6.1	6.4	9.0	6.7	14.2	14.0	13.4	14.7	14.9	10.6	8.1	6.8	3.9	28.4	24.4	19.5	20.1	21.3	2.6	28.4	11.2
	SE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	S	S	S	S	SSW	SSW	SW	WSW	W	WNW	N	N	N	N	N			
May 16	22.0	15.1	12.6	13.8	8.5	8.9	18.0	19.6	22.7	21.5	22.1	19.6	20.4	20.0	18.7	17.8	14.5	15.4	18.0	14.0	7.3	4.9	3.3	3.5	3.3	22.7	15.1
	N	N	N	N	NNW	NNW	NNW	N	NNW	NNW	N	N	N	N	N	N	N	N	N	NNE	NNE	NE	ESE	SSE			
May 17	3.3	3.4	2.5	7.4	6.4	3.2	3.4	8.8	4.4	8.6	13.6	12.1	13.9	9.3	7.8	7.8	8.4	9.2	9.4	12.9	12.7	10.3	6.8	3.6	2.5	13.9	7.9
	SE	SE	SE	E	ESE	ESE	E	ESE	E	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	ENE	E	ESE	ESE	ESE	ESE			
May 18	5.2	9.9	6.0	9.6	3.5	4.4	5.8	6.0	8.6	8.1	5.9	9.3	9.2	16.4	15.1	12.3	5.7	5.7	9.4	11.1	13.3	9.6	12.0	12.2	3.5	16.4	8.9
	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	S	S	S	SSE	SSE	ESE	E	ESE	SE	E	E	ESE	ESE	SE	SE	SE			
May 19	10.2	7.6	5.1	5.3	4.6	4.3	4.0	8.5	7.8	8.6	6.9	6.8	6.6	6.3	4.5	6.4	15.6	13.3	11.7	15.1	11.8	10.7	8.2	3.2	3.2	15.6	8.0
	SE	SE	ESE	E	ESE	SSE	SE	S	SSW	SSW	SSW	SW	SW	WSW	WNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	N			
May 20	4.0	1.4	4.5	4.3	14.1	18.0	15.5	12.5	13.0	14.6	9.4	7.6	8.7	9.4	10.7	11.4	11.2	14.7	14.2	10.4	11.3	8.7	3.3	4.7	1.4	18.0	9.9
	N	NE	NNE	ENE	E	ESE	ESE	E	ESE	E	ESE	SE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE			
May 21	11.1	7.2	4.8	5.0	7.4	6.0	5.5	7.1	5.4	5.7	5.7	6.0	9.7	7.5	4.7	3.2	2.3	3.7	4.1	7.3	2.5	20.5	7.0	6.0	2.3	20.5	6.5
	E	ESE	S	E	ENE	E	SSE	SSE	S	SSW	SSW	S	SSW	SW	SW	NNW	SSW	ESE	ENE	ESE	ENE	SW	WSW	NNW			
May 22	3.5	10.3	7.4	3.5	8.7	8.0	9.6	12.4	20.0	20.6	21.0	23.2	26.5	20.8	18.4	15.8	13.5	14.8	14.4	16.4	18.0	23.9	24.3	22.3	3.5	26.5	15.7
	WSW	NE	E	NNW	N	NNW	N	NE	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			
May 23	21.7	21.8	22.4	21.8	16.3	19.9	17.3	15.1	15.0	14.2	15.0	17.7	17.2	18.0	16.7	15.6	14.9	16.1	17.3	14.0	13.2	13.5	14.1	11.4	11.4	22.4	16.7
	N	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE			
May 24	7.9	0.7	4.2	4.3	6.1	5.6	5.0	7.0	9.0	7.9	9.6	10.9	10.0	10.2	8.0	1.4	6.1	6.8	4.8	1.2	4.2	2.2	2.6	3.1	0.7	10.9	5.8
	ENE	W	WNW	WNW	WSW	W	WSW	WSW	WSW	SW	SW	SW	SW	SW	SSW	SW	NNW	NNW	NNW	SW	S	SSE	SE	ESE			
May 25	2.9	3.6	5.0	4.4	4.0	6.1	3.3	0.9	0.8	1.5	1.5	5.3	6.1	10.3	14.3	3.5	6.5	3.3	6.0	0.9	1.0	3.5	3.7	4.2	0.8	14.3	**4.3**
	SE	ESE	ESE	SE	ESE	ESE	ESE	WSW	E	NE	NW	W	W	W	NNW	S	ESE	W	SW	WNW	E	SE	SSE	SSE			
May 26	5.1	4.9	6.2	6.5	3.0	4.7	3.4	3.5	2.5	2.5	6.3	7.4	5.9	9.9	8.8	10.6	11.0	11.9	11.1	7.3	3.7	5.0	3.8	3.7	2.5	11.9	6.2
	SE	SE	ESE	E	E	E	E	ESE	SSE	SE	SSE	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	S	ESE	SE	SE			
May 27	9.8	14.0	5.9	9.6	6.1	15.5	13.3	12.8	10.3	9.2	8.4	15.6	15.7	17.4	17.3	17.6	20.5	15.4	12.8	9.2	7.7	7.9	9.8	8.0	5.9	20.5	12.1
	SSE	SSE	SSE	SSE	S	S	S	SSW	SW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SSW	S	SSW	SSW	SSW			
May 28	9.2	10.4	11.4	11.6	12.1	11.5	15.5	18.3	18.8	15.3	17.4	23.7	21.7	19.7	17.5	14.6	12.6	7.4	6.5	6.8	14.0	9.8	10.4	10.2	6.5	23.7	13.6
	SSW	SW	SW	SSW	SW	SW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WNW	WNW	W	W	SW	WSW	SW	SSW	SSW			
May 29	8.5	6.6	7.0	7.6	8.9	12.8	11.7	16.7	16.8	17.7	18.3	17.6	20.0	17.7	19.1	18.7	16.9	15.9	14.8	10.0	6.5	6.7	5.8	4.8	4.8	20.0	12.8
	SSW	SSW	SSW	S	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	W	W	W	WSW	WSW	WSW	S			
May 30	4.5	9.9	5.1	4.6	3.7	3.5	5.7	4.5	2.3	6.2	18.1	17.8	13.4	8.5	3.8	2.3	1.5	0.8	4.7	4.2	2.7	3.2	3.7	4.4	0.8	18.1	5.8
	ESE	SSE	SE	SE	SE	ESE	SSE	S	SW	S	S	S	ESE	SE	S	W	SSE	SSE	W	W	WSW	S	SE	ESE			
May 31	6.5	4.2	3.7	2.4	2.9	4.1	5.4	6.4	2.5	2.7	7.2	9.5	10.4	8.4	7.5	8.0	6.9	7.3	9.3	9.3	4.8	5.5	5.1	7.5	2.4	10.4	6.1
	E	SE	SSE	SW	SW	SSW	S	N	NW	WSW	SSW	SW	SW	SSW	WSW	SSW	SW	SSW	SW	SW	SW	S	SW	SW			

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 - May 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

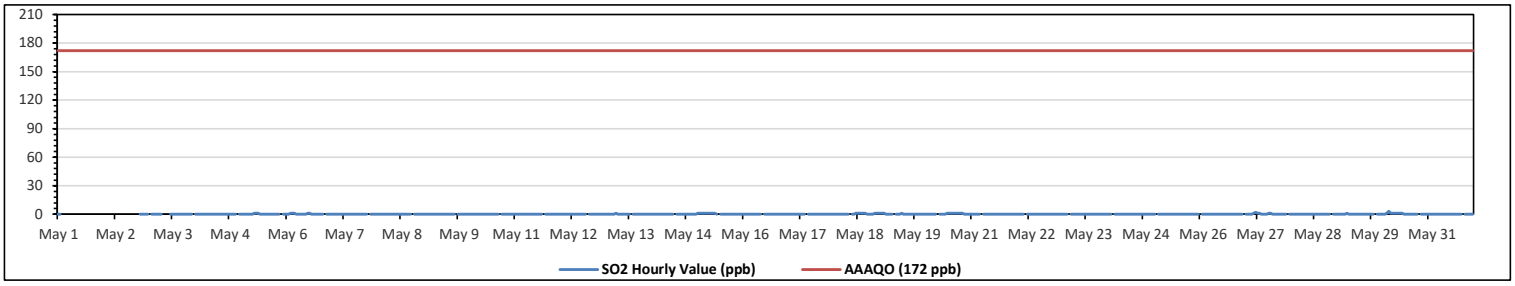
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

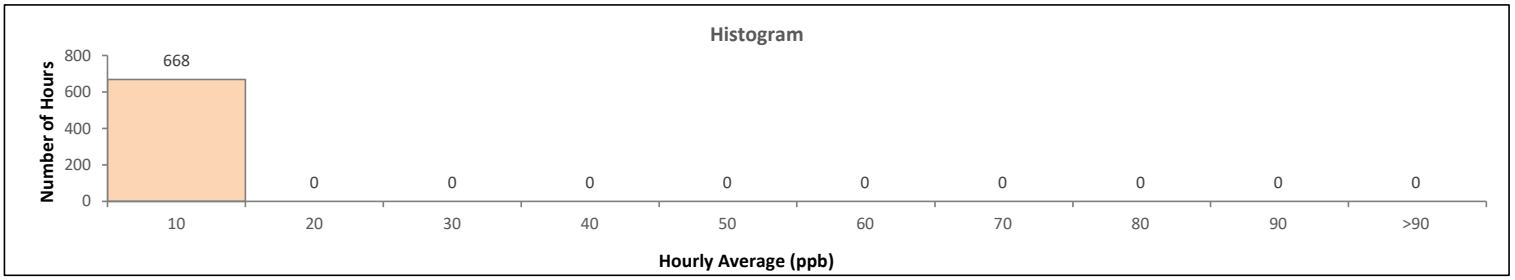
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	3	ppb	on May 30 at hr 3	Hours in Service:	744	
Maximum Daily Value:	0.5	ppb	on May 30	Hours of Data:	668	
Minimum Hourly Value:	0	ppb	on May 1 at hr 0	Hours of Missing Data:	40	
Minimum Daily Value:	0.0	ppb	on May 3	Hours of Calibration:	36	
Monthly Average:	0.1	ppb		Operational Uptime:	94.6	

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			
May 1	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0	0	NA
May 2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	S	0	0	0	0	0	0	0	NA
May 3	S	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0.0
May 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
May 5	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	0.1
May 6	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	S	0	0	0	0	1	0.2
May 7	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
May 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
May 9	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
May 10	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
May 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0.0
May 12	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
May 13	0	0	0	0	0	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.0
May 14	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
May 15	1	1	1	1	1	1	1	1	1	1	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.4
May 16	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
May 17	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
May 18	0	0	0	0	0	0	0	0	S	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1	0.4
May 19	1	1	1	0	0	0	0	S	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2
May 20	0	0	0	0	0	0	S	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0.4
May 21	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
May 22	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
May 23	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
May 24	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
May 25	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
May 26	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
May 27	0	0	0	0	1	2	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	S	0	0	2	0.3
May 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0.0
May 29	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.0
May 30	0	0	1	3	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	3	0.5
May 31	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
Diurnal Maximum	1	1	1	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1			
Diurnal Average	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	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.



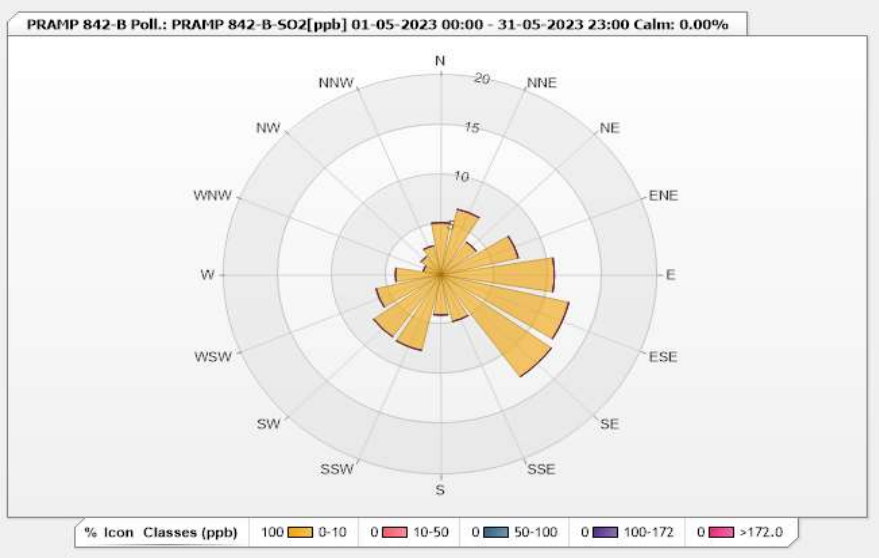


Station: PRAMP 842-B Poll.: PRAMP 842-B-SO2[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 89.78% Calm Avg: 0.00 [ppm]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	5.24	0	0	0	0	5.24
NNE	6.74	0	0	0	0	6.74
NE	4.04	0	0	0	0	4.04
ENE	7.34	0	0	0	0	7.34
E	10.48	0	0	0	0	10.48
ESE	12.13	0	0	0	0	12.13
SE	12.57	0	0	0	0	12.57
SSE	4.79	0	0	0	0	4.79
S	4.04	0	0	0	0	4.04
SSW	7.78	0	0	0	0	7.78
SW	7.63	0	0	0	0	7.63
WSW	6.14	0	0	0	0	6.14
W	4.19	0	0	0	0	4.19
WNW	1.65	0	0	0	0	1.65
NW	2.25	0	0	0	0	2.25
NNW	2.99	0	0	0	0	2.99
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

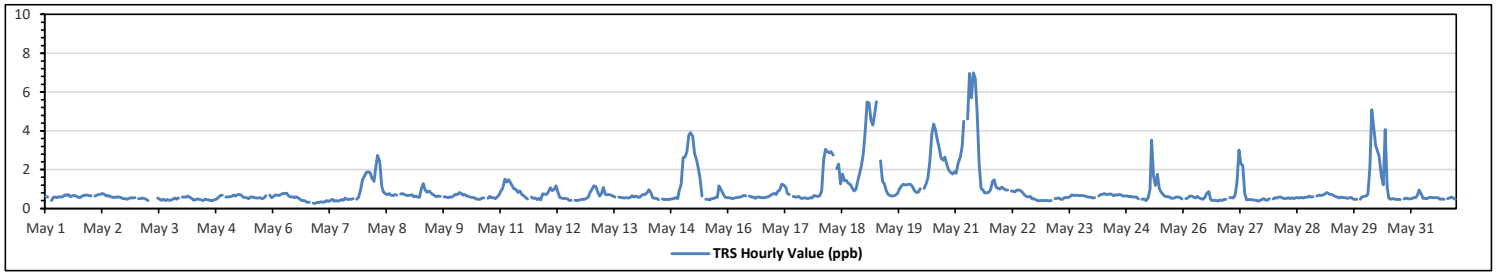
TOTAL REDUCED SULPHUR (TRS) in ppb

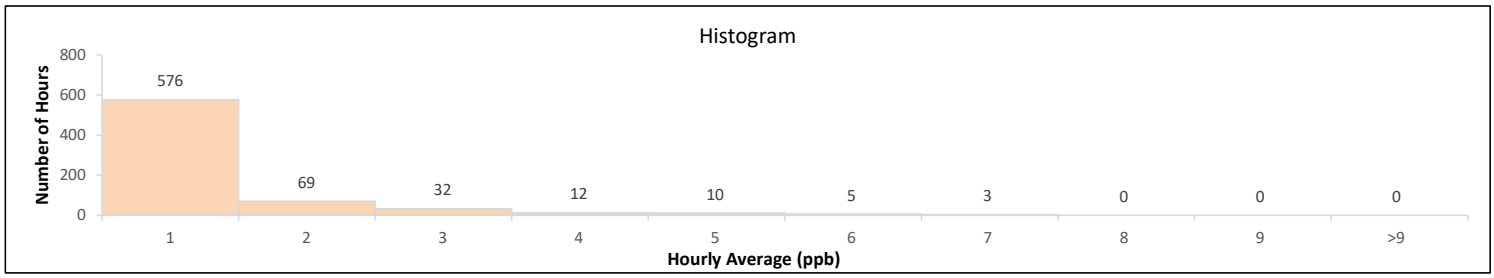
Maximum Hourly Value:	6.99	ppb	on May 21 at hr 9	Hours in Service:	744	
Maximum Daily Value:	2.79	ppb	on May 21	Hours of Data:	707	
Minimum Hourly Value:	0.26	ppb	on May 6 at hr 22	Hours of Missing Data:	0	
Minimum Daily Value:	0.48	ppb	on May 3	Hours of Calibration:	37	
Monthly Average:	0.92	ppb		Operational 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			
May 1	0.62	0.6	S	0.41	0.57	0.58	0.56	0.61	0.6	0.61	0.7	0.67	0.71	0.61	0.66	0.67	0.63	0.59	0.55	0.62	0.67	0.68	0.68	0.66	0.41	0.71	0.62
May 2	0.66	S	0.64	0.69	0.73	0.74	0.76	0.71	0.64	0.67	0.61	0.6	0.56	0.58	0.58	0.58	0.53	0.5	0.5	0.47	0.52	0.55	0.54	0.56	0.47	0.76	0.61
May 3	S	0.51	0.5	0.53	0.51	0.48	0.42	C	C	C	C	0.53	0.47	0.43	0.48	0.42	0.46	0.43	0.43	0.48	0.54	0.48	0.53	S	0.42	0.54	0.48
May 4	0.6	0.6	0.6	0.63	0.57	0.51	0.43	0.45	0.49	0.48	0.44	0.42	0.48	0.45	0.44	0.41	0.41	0.45	0.48	0.56	0.65	0.69	S	0.58	0.41	0.69	0.51
May 5	0.58	0.61	0.62	0.69	0.63	0.7	0.72	0.69	0.6	0.56	0.56	0.5	0.6	0.58	0.56	0.54	0.54	0.56	0.5	0.54	0.66	S	0.68	0.56	0.50	0.72	0.60
May 6	0.62	0.68	0.68	0.67	0.72	0.76	0.76	0.79	0.66	0.59	0.61	0.56	0.61	0.55	0.47	0.42	0.42	0.37	0.31	0.33	S	0.27	0.26	0.3	0.26	0.79	0.54
May 7	0.31	0.34	0.32	0.32	0.4	0.36	0.41	0.47	0.37	0.42	0.38	0.42	0.46	0.43	0.53	0.46	0.48	0.48	0.51	S	0.48	0.6	0.95	1.49	0.31	1.49	0.50
May 8	1.67	1.86	1.9	1.83	1.54	1.4	2.04	2.72	2.4	1.16	0.85	0.77	0.7	0.78	0.69	0.66	0.72	0.69	S	0.74	0.77	0.72	0.68	0.66	0.66	2.72	1.22
May 9	0.69	0.7	0.61	0.63	0.59	0.57	1	1.28	0.95	0.84	0.91	0.8	0.71	0.67	0.61	0.63	0.62	S	0.61	0.6	0.55	0.6	0.59	0.63	0.55	1.28	0.71
May 10	0.71	0.72	0.82	0.77	0.69	0.73	0.63	0.62	0.57	0.57	0.54	0.49	0.47	0.47	0.53	0.54	S	0.52	0.62	0.55	0.56	0.51	0.59	0.7	0.47	0.82	0.61
May 11	0.92	1.03	1.51	1.37	1.49	1.3	1.17	1.01	0.98	0.82	0.89	0.72	0.65	0.56	0.49	S	0.6	0.52	0.54	0.46	0.52	0.44	0.75	0.74	0.44	1.51	0.85
May 12	0.73	0.86	1.06	0.92	0.98	1.16	0.82	0.55	0.53	0.51	0.52	0.49	0.4	0.43	S	0.43	0.4	0.43	0.45	0.47	0.47	0.52	0.58	0.81	0.40	1.16	0.63
May 13	0.98	1.16	1.12	0.82	0.64	0.76	1.08	0.71	0.7	0.73	0.69	0.63	0.58	S	0.58	0.57	0.56	0.54	0.56	0.54	0.56	0.65	0.6	0.64	0.54	1.16	0.71
May 14	0.6	0.57	0.65	0.71	0.72	0.83	0.97	0.81	0.56	0.52	0.52	0.46	S	0.49	0.45	0.47	0.46	0.47	0.49	0.5	0.56	0.51	0.93	1.24	0.45	1.24	0.63
May 15	2.62	2.65	2.94	3.79	3.9	3.72	2.81	2.5	2.12	1.54	0.63	S	0.47	0.47	0.44	0.5	0.51	0.57	0.57	1.17	0.98	0.75	0.59	0.55	0.44	3.90	1.60
May 16	0.56	0.54	0.51	0.53	0.55	0.57	0.6	0.62	0.67	0.66	S	0.63	0.58	0.6	0.52	0.58	0.59	0.56	0.56	0.56	0.6	0.61	0.67	0.74	0.51	0.74	0.59
May 17	0.78	0.73	0.88	0.94	1.24	1.22	1.08	0.78	0.72	S	0.62	0.59	0.6	0.62	0.52	0.52	0.56	0.52	0.5	0.56	0.54	0.67	0.63	0.62	0.50	1.24	0.71
May 18	0.66	0.91	2.48	3.05	2.94	2.87	2.93	2.75	S	2.05	2.28	1.27	1.78	1.42	1.44	1.29	1.24	1.06	0.89	0.98	1.37	1.75	2.18	2.82	0.66	3.05	1.84
May 19	3.97	5.48	5.43	4.55	4.3	4.9	5.49	S	2.45	1.41	1.27	0.95	0.74	0.67	0.64	0.65	0.68	0.77	0.99	1.15	1.25	1.21	1.22	1.24	0.64	5.49	2.24
May 20	1.23	1.09	0.92	0.81	0.83	1.02	S	1.03	1.25	1.58	2.43	3.8	4.35	4.08	3.57	3.15	2.6	2.48	2.65	2.27	1.97	1.86	1.77	1.89	0.81	4.35	2.11
May 21	1.81	2.38	2.63	3.2	4.5	S	4.62	6.95	5.7	**6.99**	6.71	4.85	2.32	1.04	0.96	0.8	0.8	0.82	0.97	1.39	1.48	1.1	1.04	1	0.80	**6.99**	**2.79**
May 22	1.1	1.02	0.96	0.96	S	0.89	0.88	0.85	0.95	0.94	0.9	0.81	0.68	0.62	0.6	0.62	0.49	0.51	0.44	0.39	0.41	0.41	0.42	0.41	0.39	1.10	0.71
May 23	0.42	0.39	0.42	S	0.51	0.52	0.53	0.47	0.47	0.56	0.56	0.57	0.62	0.7	0.67	0.67	0.69	0.65	0.67	0.65	0.63	0.59	0.58	0.57	0.39	0.70	0.57
May 24	0.54	0.56	S	0.64	0.71	0.71	0.76	0.73	0.72	0.75	0.71	0.66	0.7	0.69	0.71	0.69	0.64	0.64	0.66	0.61	0.62	0.6	0.58	0.58	0.54	0.76	0.66
May 25	0.49	S	0.47	0.49	0.42	0.54	0.98	3.52	1.68	1.19	1.76	1.03	0.84	0.73	0.62	0.61	0.61	0.53	0.52	0.54	0.6	0.58	0.55	0.49	0.42	3.52	0.86
May 26	S	0.51	0.54	0.64	0.63	0.58	0.54	0.62	0.53	0.51	0.47	0.56	0.78	0.87	0.47	0.41	0.43	0.41	0.39	0.44	0.42	0.46	0.48	S	0.39	0.87	0.53
May 27	0.55	0.55	0.54	0.69	1.36	3.01	2.31	2.21	0.77	0.44	0.45	0.45	0.45	0.43	0.43	0.38	0.42	0.45	0.5	0.44	0.43	0.5	S	0.49	0.38	3.01	0.79
May 28	0.55	0.54	0.59	0.59	0.53	0.5	0.52	0.56	0.51	0.56	0.51	0.56	0.56	0.54	0.57	0.53	0.58	0.57	0.64	0.6	0.61	S	0.63	0.69	0.50	0.69	0.57
May 29	0.67	0.69	0.71	0.82	0.79	0.71	0.71	0.65	0.61	0.6	0.54	0.59	0.56	0.56	0.52	0.53	0.57	0.49	0.48	0.48	S	0.48	0.61	0.62	0.48	0.82	0.61
May 30	0.64	0.75	2.08	5.1	4.2	3.25	2.94	2.69	1.66	1.21	4.07	1.12	0.53	0.48	0.51	0.49	0.46	0.47	0.46	S	0.49	0.54	0.51	0.49	0.46	5.10	1.53
May 31	0.5	0.55	0.55	0.66	0.95	0.77	0.52	0.52	0.51	0.56	0.57	0.56	0.55	0.56	0.55	0.48	0.49	0.48	S	0.51	0.54	0.58	0.54	0.47	0.47	0.95	0.56
Diurnal Maximum	3.97	5.48	5.43	5.10	4.50	4.90	5.49	6.95	5.70	6.99	6.71	4.85	4.35	4.08	3.57	3.15	2.60	2.48	2.65	2.27	1.97	1.86	2.18	2.82			
Diurnal Average	0.92	1.02	1.16	1.28	1.30	1.22	1.33	1.34	1.08	1.04	1.13	0.90	0.82	0.74	0.69	0.66	0.64	0.62	0.64	0.68	0.71	0.69	0.74	0.80			

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.



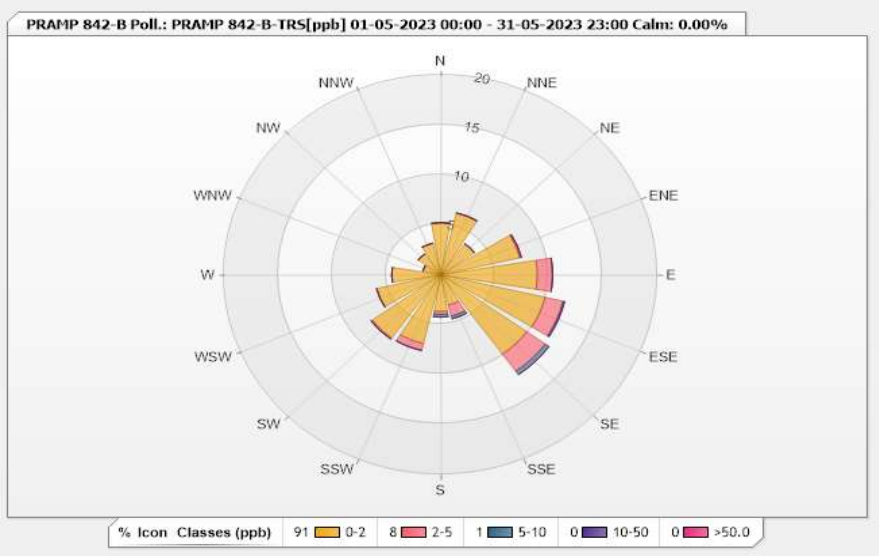


Station: PRAMP 842-B Poll.: PRAMP 842-B-TRS[ppb] Monthly: 05-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	5.23	0	0	0	0	5.23
NNE	6.36	0	0	0	0	6.36
NE	3.82	0	0	0	0	3.82
ENE	7.5	0.14	0	0	0	7.64
E	8.91	1.41	0	0	0	10.32
ESE	9.9	1.7	0.14	0	0	11.74
SE	9.76	2.12	0.42	0	0	12.3
SSE	3.11	1.13	0.28	0	0	4.52
S	3.68	0.28	0.28	0	0	4.24
SSW	7.07	0.71	0	0	0	7.78
SW	7.78	0.14	0	0	0	7.92
WSW	6.08	0	0	0	0	6.08
W	4.53	0	0	0	0	4.53
WNW	1.7	0	0	0	0	1.7
NW	2.55	0	0	0	0	2.55
NNW	3.25	0	0	0	0	3.25
Summary	91.23	7.63	1.12	0	0	100



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

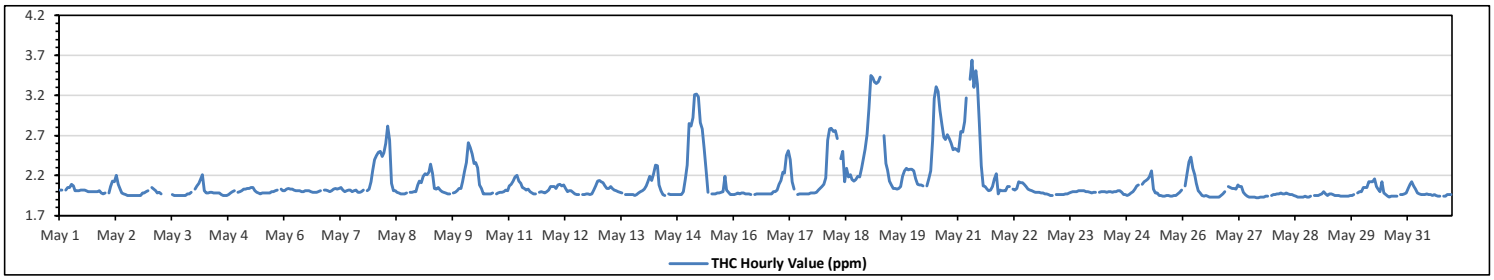
TOTAL HYDROCARBONS (THC) in ppm

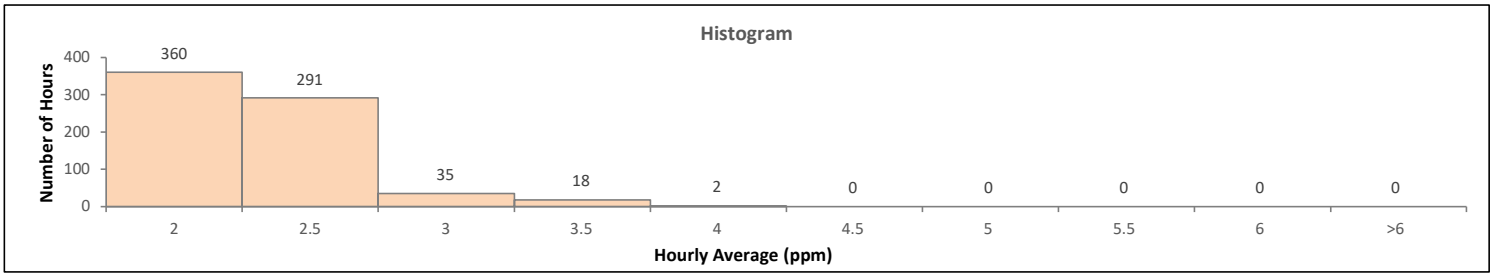
Maximum Hourly Value:	3.64	ppm	on May 21 at hr 7	Hours in Service:	744
Maximum Daily Value:	2.57	ppm	on May 21	Hours of Data:	706
Minimum Hourly Value:	1.92	ppm	on May 27 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	1.95	ppm	on May 28	Hours of Calibration:	38
Monthly Average:	2.10	ppm		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	2.02	2.02	S	2.02	2.05	2.05	2.09	2.07	2.01	2.01	2.01	2.02	2.02	2.02	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	1.98	1.97	1.97	2.09	2.02
May 2	1.98	S	1.98	2.06	2.13	2.12	2.20	2.09	2.03	1.98	1.97	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.98	1.98	2.00	2.01	1.95	2.20	2.00
May 3	S	2.05	2.03	2.01	1.98	1.99	1.97	C	C	C	C	C	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.97	1.97	1.99	S	1.95	2.05	NA
May 4	2.03	2.07	2.10	2.15	2.21	2.01	1.98	1.98	1.99	1.99	1.98	1.98	1.98	1.98	1.96	1.95	1.95	1.95	1.96	1.98	2.00	2.01	S	1.99	1.95	2.21	2.01
May 5	2.00	2.01	2.03	2.03	2.04	2.04	2.05	2.05	2.01	1.99	1.98	1.97	1.98	1.98	1.98	1.98	1.98	2.00	2.00	2.01	2.02	S	2.03	2.01	1.97	2.05	2.01
May 6	2.01	2.03	2.04	2.03	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.00	1.99	1.99	1.99	2.00	2.01	S	2.02	2.02	2.01	1.99	2.04	2.01
May 7	2.00	2.01	2.03	2.04	2.03	2.04	2.05	2.02	2.00	2.01	2.02	2.02	2.00	2.01	2.02	1.99	1.99	2.00	2.02	S	2.01	2.03	2.12	2.26	1.99	2.26	2.03
May 8	2.40	2.45	2.49	2.50	2.44	2.48	2.60	2.82	2.64	2.10	2.01	2.01	1.99	1.98	1.97	1.97	1.97	1.98	S	1.99	1.99	2.00	2.00	2.08	1.97	2.82	2.21
May 9	2.13	2.11	2.19	2.22	2.21	2.24	2.34	2.23	2.04	2.03	2.05	2.02	2.00	1.99	1.98	1.97	1.97	S	1.98	1.99	2.01	2.04	2.04	2.12	1.97	2.34	2.08
May 10	2.25	2.36	2.61	2.55	2.47	2.35	2.36	2.30	2.08	2.04	1.97	1.97	1.97	1.97	1.97	1.98	S	1.97	1.98	1.99	1.99	2.00	2.02	2.01	1.97	2.61	2.14
May 11	2.07	2.09	2.13	2.18	2.20	2.13	2.10	2.05	2.04	2.02	2.03	2.00	1.98	1.97	1.97	S	1.99	2.00	1.99	1.98	2.00	2.02	2.06	2.06	1.97	2.20	2.05
May 12	2.06	2.04	2.08	2.09	2.07	2.08	2.04	2.00	2.01	2.01	1.99	1.97	1.96	1.96	S	1.96	1.96	1.97	1.97	1.96	1.97	2.02	2.07	2.13	1.96	2.13	2.02
May 13	2.14	2.12	2.11	2.07	2.04	2.04	2.06	2.04	2.02	2.01	2.00	1.99	1.98	S	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.98	2.00	2.01	1.95	2.14	2.01
May 14	2.03	2.07	2.12	2.19	2.14	2.22	2.33	2.32	2.08	2.01	1.96	1.95	S	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	2.00	2.15	2.33	1.95	2.33	2.07
May 15	2.85	2.82	2.92	3.21	3.22	3.18	2.86	2.78	2.54	2.27	1.99	S	1.97	1.97	1.97	1.98	1.98	1.99	2.00	2.19	2.02	1.99	1.96	1.96	1.96	3.22	2.37
May 16	1.96	1.97	1.98	1.97	1.98	1.98	1.97	1.97	1.97	1.96	S	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	2.00	2.00	2.02	1.96	2.02	1.97
May 17	2.09	2.14	2.24	2.23	2.45	2.51	2.40	2.12	2.03	S	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.99	2.02	2.04	2.06	1.96	2.51	2.09
May 18	2.09	2.17	2.64	2.78	2.79	2.75	2.76	2.66	S	2.41	2.50	2.12	2.29	2.18	2.21	2.15	2.13	2.15	2.19	2.18	2.29	2.40	2.53	2.71	2.09	2.79	2.39
May 19	3.04	3.45	3.42	3.37	3.35	3.37	3.43	S	2.70	2.35	2.27	2.13	2.08	2.04	2.04	2.03	2.04	2.06	2.19	2.26	2.29	2.27	2.28	2.28	2.03	3.45	2.55
May 20	2.26	2.16	2.09	2.08	2.08	2.07	S	2.07	2.16	2.26	2.64	3.16	3.31	3.25	3.01	2.84	2.68	2.65	2.71	2.66	2.60	2.52	2.54	2.52	2.07	3.31	2.54
May 21	2.50	2.75	2.74	2.87	3.17	S	3.40	**3.64**	3.30	3.51	3.34	2.85	2.32	2.07	2.06	2.03	2.01	2.02	2.06	2.16	2.22	1.97	2.02	2.01	1.97	**3.64**	**2.57**
May 22	2.01	2.01	2.06	2.06	S	2.03	2.02	2.04	2.12	2.11	2.11	2.09	2.06	2.03	2.02	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.97	1.97	1.97	2.12	2.03
May 23	1.96	1.95	1.95	S	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.98	1.99	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.98	1.95	2.01	1.98
May 24	1.99	1.99	S	1.99	2.00	2.00	2.00	1.99	2.00	2.00	1.99	2.00	2.00	2.01	2.01	1.99	1.96	1.96	1.95	1.96	1.98	2.00	2.03	2.07	1.95	2.07	1.99
May 25	2.08	S	2.09	2.12	2.14	2.16	2.19	2.26	2.03	1.98	1.98	1.95	1.95	1.94	1.94	1.95	1.95	1.94	1.94	1.95	1.95	1.97	1.99	2.02	1.94	2.26	2.02
May 26	S	2.07	2.22	2.37	2.43	2.29	2.21	2.10	2.01	1.98	1.95	1.94	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.95	1.97	2.00	S	1.93	2.43	2.04
May 27	2.06	2.05	2.04	2.04	2.03	2.08	2.06	2.06	1.99	1.96	1.94	1.93	1.93	1.93	1.93	1.92	1.92	1.93	1.93	1.93	1.94	1.94	S	1.95	1.92	2.08	1.98
May 28	1.96	1.96	1.97	1.97	1.98	1.97	1.97	1.98	1.97	1.96	1.96	1.95	1.94	1.93	1.93	1.93	1.93	1.94	1.93	1.93	1.94	S	1.95	1.95	1.93	1.98	1.95
May 29	1.95	1.96	1.97	2.00	1.97	1.95	1.97	1.97	1.96	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.96	S	1.98	2.00	2.00	1.94	2.00	1.96
May 30	2.05	2.05	2.05	2.12	2.12	2.12	2.16	2.06	2.03	2.00	2.12	1.98	1.96	1.94	1.93	1.94	1.94	1.94	1.94	S	1.96	1.96	1.97	1.98	1.93	2.16	2.01
May 31	2.04	2.09	2.12	2.07	2.03	1.98	1.97	1.96	1.96	1.96	1.97	1.96	1.96	1.95	1.96	1.95	1.94	1.94	S	1.94	1.94	1.96	1.96	1.96	1.94	2.12	1.98
Diurnal Maximum	3.04	3.45	3.42	3.37	3.35	3.37	3.43	3.64	3.30	3.51	3.34	3.16	3.31	3.25	3.01	2.84	2.68	2.65	2.71	2.66	2.60	2.52	2.54	2.71			
Diurnal Average	2.14	2.17	2.22	2.25	2.26	2.21	2.25	2.19	2.13	2.10	2.09	2.06	2.05	2.03	2.02	2.00	2.00	2.00	2.01	2.02	2.03	2.03	2.06	2.08			

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.



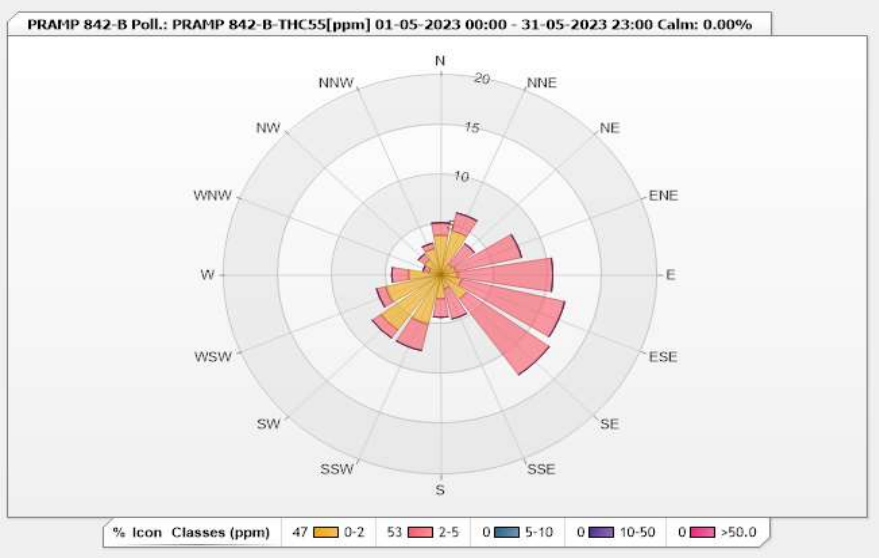


Station: PRAMP 842-B Poll.: PRAMP 842-B-THC55[ppm] Monthly: 05-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	3.97	1.27	0	0	0	5.24
NNE	4.53	1.84	0	0	0	6.37
NE	1.27	2.55	0	0	0	3.82
ENE	1.42	6.23	0	0	0	7.65
E	1.56	8.78	0	0	0	10.34
ESE	1.98	9.77	0	0	0	11.75
SE	2.97	9.35	0	0	0	12.32
SSE	1.42	3.12	0	0	0	4.54
S	2.41	1.84	0	0	0	4.25
SSW	5.1	2.69	0	0	0	7.79
SW	6.8	0.99	0	0	0	7.79
WSW	5.24	0.85	0	0	0	6.09
W	2.97	1.56	0	0	0	4.53
WNW	1.13	0.57	0	0	0	1.7
NW	1.84	0.71	0	0	0	2.55
NNW	2.69	0.57	0	0	0	3.26
Summary	47.3	52.69	0	0	0	100



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

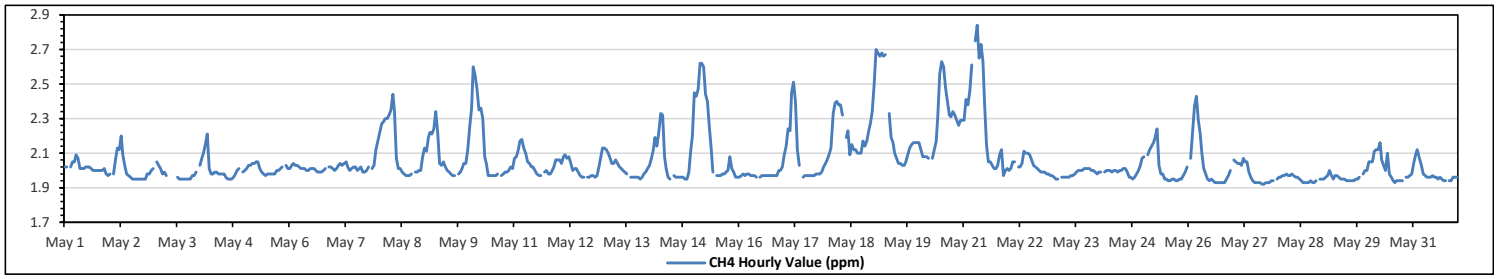
METHANE (CH4) in ppm

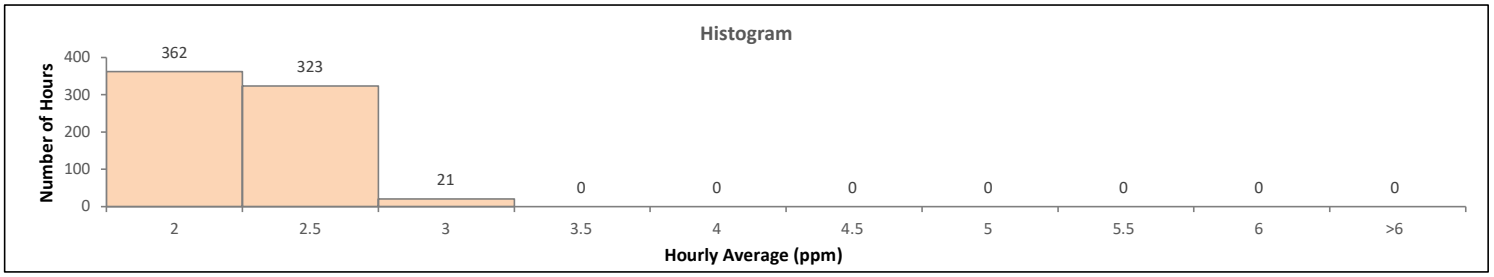
Maximum Hourly Value:	2.84	ppm	on May 21 at hr 7	Hours in Service:	744
Maximum Daily Value:	2.29	ppm	on May 21	Hours of Data:	706
Minimum Hourly Value:	1.92	ppm	on May 27 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	1.95	ppm	on May 28	Hours of Calibration:	38
Monthly Average:	2.06	ppm		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	2.02	2.02	S	2.02	2.05	2.05	2.09	2.07	2.01	2.01	2.01	2.02	2.02	2.02	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	1.98	1.97	1.97	2.09	2.02
May 2	1.98	S	1.98	2.06	2.13	2.12	2.20	2.09	2.03	1.98	1.97	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.98	1.98	2.00	2.01	1.95	2.20	2.00
May 3	S	2.05	2.03	2.01	1.98	1.99	1.97	C	C	C	C	C	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.97	1.97	1.99	S	1.95	2.05	NA
May 4	2.03	2.07	2.10	2.15	2.21	2.01	1.98	1.98	1.99	1.99	1.98	1.98	1.98	1.98	1.96	1.95	1.95	1.95	1.96	1.98	2.00	2.01	S	1.99	1.95	2.21	2.01
May 5	2.00	2.01	2.03	2.03	2.04	2.04	2.05	2.05	2.01	1.99	1.98	1.97	1.98	1.98	1.98	1.98	1.98	2.00	2.00	2.01	2.02	S	2.03	2.01	1.97	2.05	2.01
May 6	2.01	2.03	2.04	2.03	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.00	1.99	1.99	1.99	2.00	2.01	S	2.02	2.02	2.01	1.99	2.04	2.01
May 7	2.00	2.01	2.03	2.04	2.03	2.04	2.05	2.02	2.00	2.01	2.02	2.02	2.00	2.01	2.02	1.99	1.99	2.00	2.02	S	2.01	2.03	2.12	2.17	1.99	2.17	2.03
May 8	2.22	2.27	2.28	2.30	2.30	2.32	2.35	2.44	2.34	2.07	2.01	2.01	1.99	1.98	1.97	1.97	1.97	1.98	S	1.99	1.99	2.00	2.00	2.08	1.97	2.44	2.12
May 9	2.13	2.11	2.19	2.22	2.21	2.24	2.34	2.22	2.04	2.03	2.05	2.02	2.00	1.99	1.98	1.97	1.97	S	1.98	1.99	2.01	2.04	2.04	2.12	1.97	2.34	2.08
May 10	2.25	2.36	2.60	2.55	2.47	2.35	2.36	2.30	2.08	2.04	1.97	1.97	1.97	1.97	1.97	1.98	S	1.97	1.98	1.99	1.99	2.00	2.02	2.01	1.97	2.60	2.14
May 11	2.07	2.08	2.12	2.17	2.18	2.13	2.10	2.05	2.04	2.02	2.02	2.00	1.98	1.97	1.97	S	1.99	2.00	1.98	1.98	2.00	2.02	2.06	2.06	1.97	2.18	2.04
May 12	2.06	2.04	2.08	2.09	2.07	2.08	2.04	2.00	2.01	2.01	1.99	1.97	1.96	1.96	S	1.96	1.96	1.97	1.97	1.96	1.97	2.02	2.07	2.13	1.96	2.13	2.02
May 13	2.13	2.12	2.10	2.07	2.04	2.04	2.06	2.04	2.02	2.01	2.00	1.99	1.98	S	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.98	1.99	2.01	1.95	2.13	2.01
May 14	2.03	2.07	2.12	2.19	2.14	2.22	2.33	2.32	2.08	2.01	1.96	1.95	S	1.97	1.96	1.96	1.96	1.96	1.96	1.95	1.95	1.99	2.10	2.20	1.95	2.33	2.06
May 15	2.45	2.43	2.47	2.62	2.62	2.60	2.44	2.40	2.25	2.12	1.99	S	1.97	1.97	1.97	1.98	1.98	1.99	2.00	2.08	2.01	1.99	1.96	1.96	1.96	2.62	2.18
May 16	1.96	1.97	1.98	1.97	1.98	1.98	1.97	1.97	1.97	1.96	S	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	2.00	2.00	2.02	1.96	2.02	1.97
May 17	2.09	2.14	2.24	2.23	2.45	2.51	2.40	2.12	2.03	S	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.99	2.02	2.04	2.06	1.96	2.51	2.09
May 18	2.09	2.13	2.33	2.39	2.40	2.38	2.38	2.32	S	2.19	2.23	2.09	2.15	2.12	2.12	2.10	2.10	2.10	2.17	2.14	2.17	2.23	2.27	2.34	2.09	2.40	2.21
May 19	2.50	2.70	2.68	2.66	2.68	2.66	2.67	S	2.33	2.19	2.16	2.10	2.07	2.04	2.04	2.03	2.03	2.05	2.09	2.13	2.15	2.16	2.16	2.16	2.03	2.70	2.28
May 20	2.16	2.12	2.08	2.08	2.08	2.07	S	2.07	2.12	2.17	2.32	2.56	2.63	2.60	2.48	2.40	2.32	2.31	2.34	2.32	2.29	2.26	2.29	2.29	2.07	2.63	2.28
May 21	2.29	2.41	2.38	2.46	2.61	S	2.75	**2.84**	2.65	2.73	2.63	2.39	2.15	2.05	2.05	2.03	2.01	2.01	2.03	2.09	2.12	1.97	2.00	2.01	1.97	**2.84**	**2.29**
May 22	2.00	2.01	2.05	2.05	S	2.02	2.02	2.04	2.11	2.10	2.10	2.09	2.06	2.03	2.02	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.97	1.97	1.97	2.11	2.03
May 23	1.96	1.95	1.95	S	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.98	1.99	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.98	1.95	2.01	1.98
May 24	1.99	1.99	S	1.99	2.00	2.00	2.00	1.99	2.00	2.00	1.99	2.00	2.00	2.01	2.01	1.99	1.96	1.96	1.95	1.96	1.98	2.00	2.03	2.07	1.95	2.07	1.99
May 25	2.08	S	2.09	2.12	2.14	2.16	2.19	2.24	2.03	1.98	1.98	1.95	1.95	1.94	1.94	1.95	1.95	1.94	1.94	1.95	1.95	1.97	1.99	2.02	1.94	2.24	2.02
May 26	S	2.07	2.22	2.37	2.43	2.29	2.21	2.10	2.01	1.98	1.95	1.94	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.95	1.97	2.00	S	1.93	2.43	2.04
May 27	2.06	2.05	2.04	2.04	2.03	2.07	2.05	2.05	1.99	1.96	1.94	1.93	1.93	1.93	1.93	1.92	1.92	1.93	1.93	1.93	1.94	1.94	S	1.95	1.92	2.07	1.98
May 28	1.96	1.96	1.97	1.97	1.98	1.97	1.97	1.98	1.97	1.96	1.96	1.95	1.94	1.93	1.93	1.93	1.93	1.94	1.93	1.93	1.94	S	1.95	1.95	1.93	1.98	1.95
May 29	1.95	1.96	1.97	2.00	1.97	1.95	1.97	1.97	1.96	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.96	S	1.98	2.00	2.00	1.94	2.00	1.96
May 30	2.05	2.05	2.05	2.11	2.12	2.12	2.16	2.06	2.03	2.00	2.10	1.98	1.96	1.94	1.93	1.94	1.94	1.94	1.94	S	1.96	1.96	1.97	1.98	1.93	2.16	2.01
May 31	2.04	2.09	2.12	2.07	2.03	1.98	1.97	1.96	1.96	1.96	1.97	1.96	1.96	1.95	1.96	1.95	1.94	1.94	S	1.94	1.94	1.96	1.96	1.96	1.94	2.12	1.98
Diurnal Maximum	2.50	2.70	2.68	2.66	2.68	2.66	2.75	2.84	2.65	2.73	2.63	2.56	2.63	2.60	2.48	2.40	2.32	2.31	2.34	2.32	2.29	2.26	2.29	2.34			
Diurnal Average	2.09	2.11	2.15	2.17	2.18	2.15	2.17	2.13	2.07	2.05	2.04	2.02	2.01	2.00	2.00	1.99	1.98	1.99	2.00	2.00	2.01	2.02	2.03	2.05			

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

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



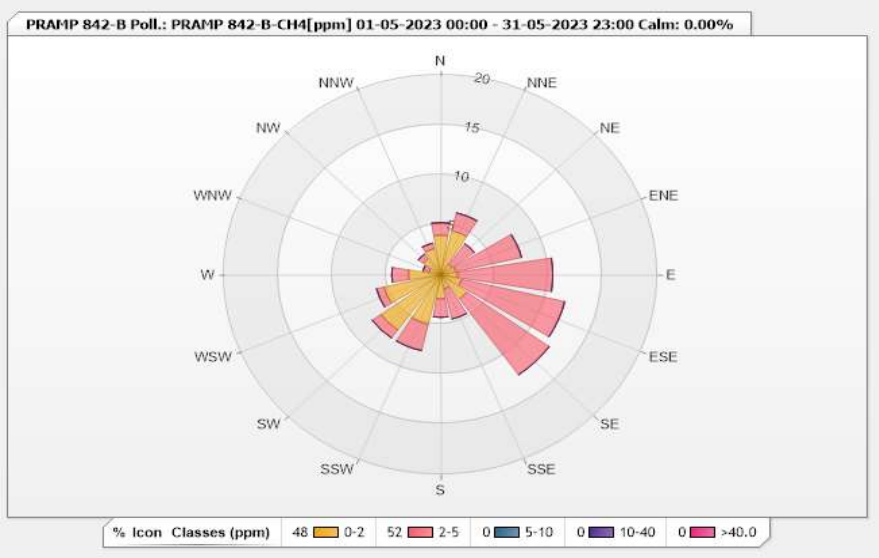


Station: PRAMP 842-B Poll.: PRAMP 842-B-CH4[ppm] Monthly: 05-2023

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

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

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	3.97	1.27	0	0	0	5.24
NNE	4.53	1.84	0	0	0	6.37
NE	1.27	2.55	0	0	0	3.82
ENE	1.42	6.23	0	0	0	7.65
E	1.56	8.78	0	0	0	10.34
ESE	1.98	9.77	0	0	0	11.75
SE	2.97	9.35	0	0	0	12.32
SSE	1.42	3.12	0	0	0	4.54
S	2.41	1.84	0	0	0	4.25
SSW	5.1	2.69	0	0	0	7.79
SW	6.8	0.99	0	0	0	7.79
WSW	5.38	0.71	0	0	0	6.09
W	2.97	1.56	0	0	0	4.53
WNW	1.13	0.57	0	0	0	1.7
NW	1.98	0.57	0	0	0	2.55
NNW	2.69	0.57	0	0	0	3.26
Summary	47.58	52.41	0	0	0	100



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

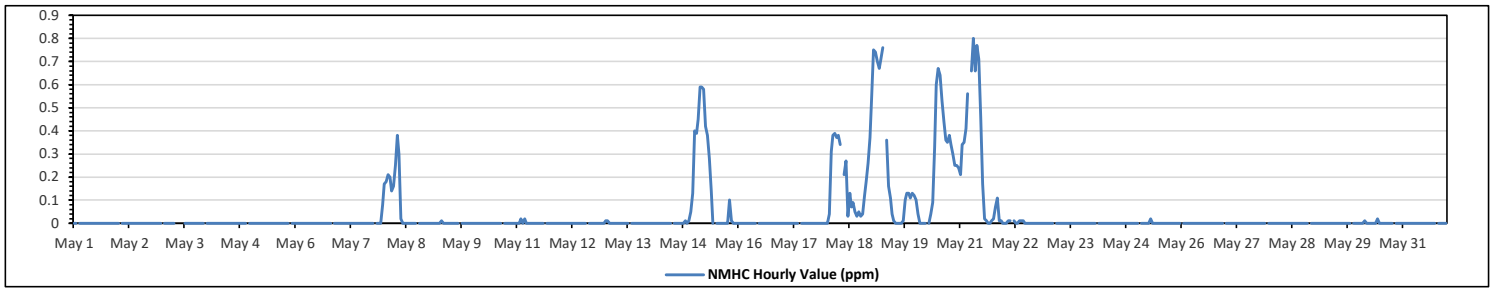
NON-METHANE HYDROCARBONS (NMHC) in ppm

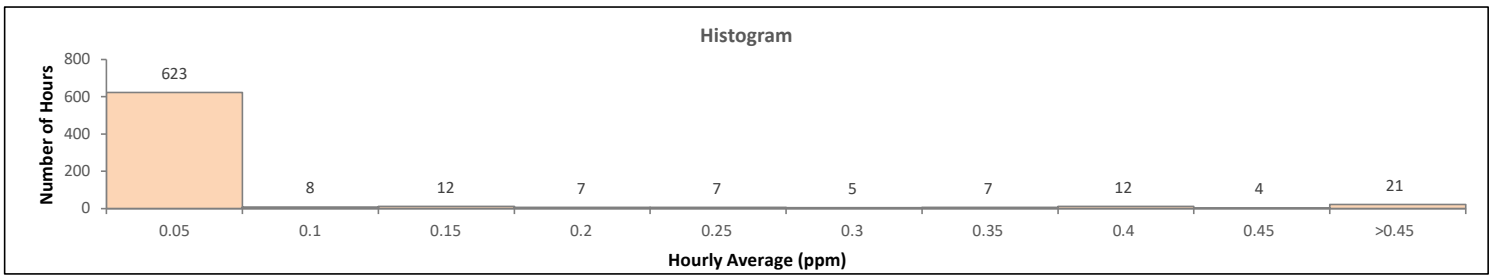
Maximum Hourly Value:	0.80	ppm	on May 21 at hr 7	Hours in Service:	744	
Maximum Daily Value:	0.28	ppm	on May 21	Hours of Data:	706	
Minimum Hourly Value:	0.00	ppm	on May 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.00	ppm	on May 1	Hours of Calibration:	38	
Monthly Average:	0.04	ppm		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 2	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 3	S	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	NA
May 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
May 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.08	0.00	0.08	0.00
May 8	0.17	0.18	0.21	0.20	0.14	0.16	0.25	0.38	0.30	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.09
May 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
May 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 11	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
May 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 13	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
May 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.05	0.13	0.00	0.13	0.01
May 15	0.40	0.39	0.45	0.59	0.59	0.58	0.42	0.38	0.28	0.14	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.01	0.00	0.00	0.00	0.00	0.59	0.19
May 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 18	0.00	0.04	0.31	0.38	0.39	0.37	0.38	0.34	S	0.21	0.27	0.03	0.13	0.07	0.09	0.05	0.03	0.05	0.03	0.04	0.12	0.18	0.26	0.37	0.00	0.39	0.18
May 19	0.54	0.75	0.74	0.70	0.67	0.71	0.76	S	0.36	0.16	0.11	0.04	0.01	0.00	0.00	0.00	0.00	0.01	0.10	0.13	0.13	0.11	0.13	0.12	0.00	0.76	0.27
May 20	0.10	0.04	0.00	0.00	0.00	0.00	S	0.00	0.04	0.09	0.33	0.60	0.67	0.64	0.53	0.44	0.36	0.35	0.38	0.34	0.30	0.25	0.25	0.24	0.00	0.67	0.26
May 21	0.21	0.34	0.35	0.41	0.56	S	0.66	**0.80**	0.66	0.77	0.71	0.46	0.17	0.02	0.01	0.00	0.00	0.01	0.02	0.07	0.11	0.01	0.01	0.00	0.00	**0.80**	**0.28**
May 22	0.00	0.00	0.01	0.01	S	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
May 23	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 24	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 25	0.00	S	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
May 26	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
May 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
May 30	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.02	0.00
May 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.54	0.75	0.74	0.70	0.67	0.71	0.76	0.80	0.66	0.77	0.71	0.60	0.67	0.64	0.53	0.44	0.36	0.35	0.38	0.34	0.30	0.25	0.26	0.37			
Diurnal Average	0.05	0.06	0.07	0.08	0.08	0.06	0.08	0.07	0.06	0.05	0.05	0.04	0.03	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03			

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.



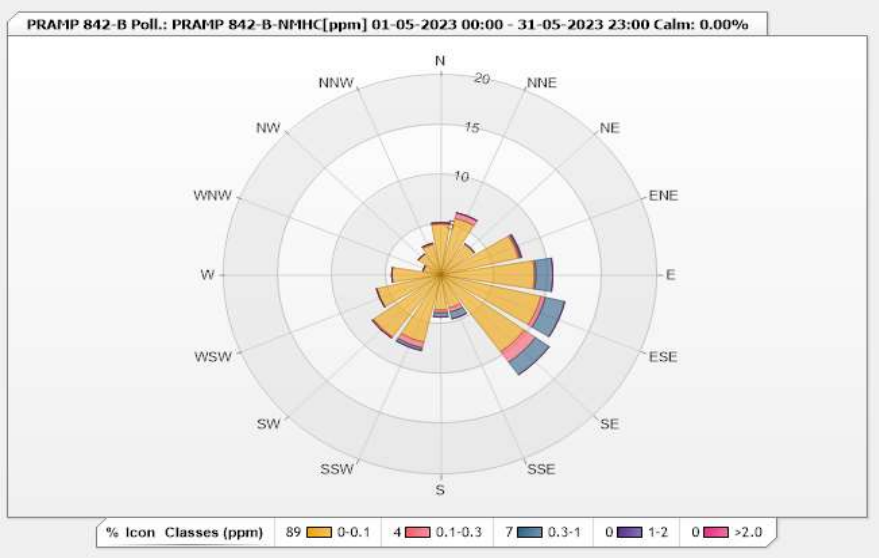


Station: PRAMP 842-B Poll.: PRAMP 842-B-NMHC[ppm] Monthly: 05-2023

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

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

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	5.1	0.14	0	0	0	5.24
NNE	5.81	0.57	0	0	0	6.38
NE	3.82	0	0	0	0	3.82
ENE	7.37	0.14	0.14	0	0	7.65
E	8.64	0.14	1.56	0	0	10.34
ESE	9.49	0.42	1.84	0	0	11.75
SE	9.49	1.27	1.56	0	0	12.32
SSE	3.4	0.42	0.71	0	0	4.53
S	3.54	0.28	0.42	0	0	4.24
SSW	6.94	0.57	0.28	0	0	7.79
SW	7.65	0.14	0	0	0	7.79
WSW	6.09	0	0	0	0	6.09
W	4.53	0	0	0	0	4.53
WNW	1.7	0	0	0	0	1.7
NW	2.55	0	0	0	0	2.55
NNW	3.12	0.14	0	0	0	3.26
Summary	89.24	4.23	6.51	0	0	100



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

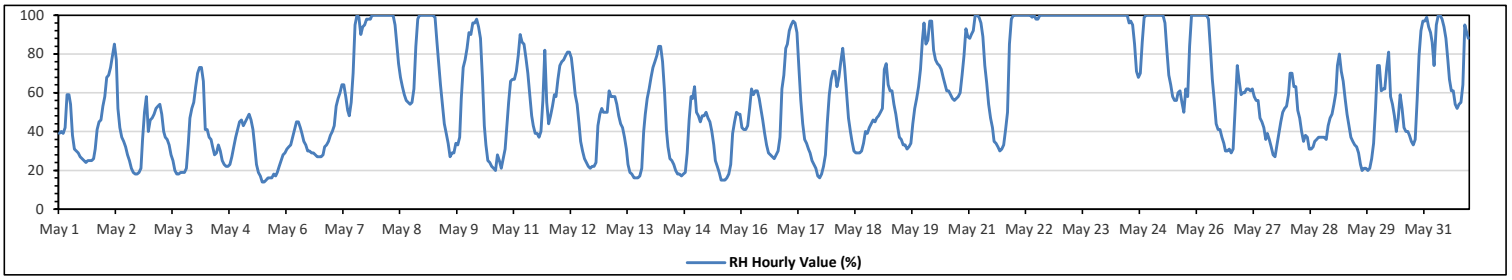
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on May 7 at hr 13	Hours in Service:	744
Maximum Daily Value:	100.0	%	on May 23	Hours of Data:	744
Minimum Hourly Value:	14	%	on May 5 at hr 11	Hours of Missing Data:	0
Minimum Daily Value:	27.4	%	on May 5	Hours of Calibration:	0
Monthly Average:	57.2	%		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
May 1	39	40	39	42	59	59	54	38	31	30	29	27	26	25	24	25	25	25	26	31	41	45	46	53	24	59	36.6
May 2	58	68	69	73	79	85	77	52	42	37	35	32	28	25	21	19	18	18	19	21	36	50	58	40	18	85	44.2
May 3	46	47	49	52	53	54	49	40	37	36	33	28	25	20	18	18	19	19	19	21	34	47	52	55	18	55	36.3
May 4	63	70	73	73	66	41	41	37	36	32	28	29	33	30	25	23	22	22	23	27	32	37	41	45	22	73	39.5
May 5	46	43	45	47	49	46	41	33	23	19	17	**14**	**14**	15	16	16	16	18	17	19	22	25	28	29	**14**	49	**27.4**
May 6	31	32	33	37	41	45	45	42	39	35	33	30	30	29	29	28	27	27	27	28	32	33	35	38	27	45	33.6
May 7	40	43	53	57	60	64	64	58	51	48	55	70	95	**100**	99	90	94	95	98	98	98	**100**	**100**	**100**	40	**100**	76.3
May 8	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	95	86	75	68	63	59	56	55	54	55	62	84	98	**100**	**100**	54	**100**	83.8
May 9	**100**	**100**	**100**	**100**	**100**	**100**	99	86	76	64	54	44	39	34	27	29	29	34	33	37	57	73	77	83	27	**100**	65.6
May 10	91	90	96	96	98	94	88	68	43	33	25	24	22	21	20	28	25	21	26	31	44	55	66	67	20	98	53.0
May 11	67	71	79	90	86	85	78	70	59	48	43	39	39	37	40	56	82	55	44	48	53	59	58	67	37	90	60.5
May 12	74	76	77	79	81	81	78	69	59	54	44	35	30	26	24	22	21	22	22	24	43	49	52	50	21	81	49.7
May 13	50	50	61	58	58	58	54	48	44	42	37	31	23	19	18	16	16	16	17	21	40	49	57	62	16	62	39.4
May 14	68	73	76	79	84	84	76	61	41	32	26	25	23	20	18	18	17	18	19	29	46	58	57	63	17	84	46.3
May 15	50	48	45	48	48	50	47	45	40	33	25	22	19	15	15	15	16	18	23	39	45	50	49	49	15	50	35.6
May 16	42	41	41	43	52	62	59	61	61	57	51	46	39	33	29	28	27	26	28	30	37	62	69	83	26	83	46.1
May 17	85	92	95	97	96	91	73	56	44	36	34	31	29	25	23	21	17	16	18	22	28	45	59	67	16	97	50.0
May 18	71	71	63	68	76	83	73	60	47	40	35	30	29	29	29	30	34	40	39	42	44	46	45	47	29	83	48.8
May 19	48	50	52	72	75	64	61	61	54	49	42	37	36	33	33	31	32	34	44	52	57	63	72	87	31	87	51.6
May 20	96	85	87	97	97	82	77	75	74	72	68	64	61	61	59	57	56	57	58	60	69	79	93	89	56	97	73.9
May 21	88	90	92	**100**	**100**	99	96	89	74	65	54	47	42	35	34	32	30	31	33	41	50	85	98	**100**	30	**100**	66.9
May 22	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	**100**	98	98	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	**100**	99.8
May 23	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	100	**100**	**100.0**
May 24	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	96	97	95	85	71	68	70	86	99	**100**	**100**	**100**	68	**100**	94.5
May 25	**100**	**100**	**100**	**100**	**100**	**100**	**100**	96	82	69	64	58	56	56	60	61	55	50	62	58	84	**100**	**100**	**100**	50	**100**	79.6
May 26	**100**	**100**	**100**	**100**	**100**	**100**	98	83	67	56	44	41	41	37	34	30	30	31	29	31	54	74	66	59	29	**100**	62.7
May 27	60	60	62	62	61	62	58	56	56	47	45	42	36	39	36	32	28	27	33	39	45	50	52	53	27	62	47.5
May 28	59	70	70	63	63	51	47	40	35	38	37	31	31	32	35	36	37	37	37	37	36	43	47	49	31	70	44.2
May 29	54	60	74	80	71	66	57	49	43	37	35	33	32	29	23	20	21	21	20	21	26	34	52	74	20	80	43.0
May 30	74	61	62	62	73	81	58	54	48	40	47	59	52	42	40	40	38	35	33	36	56	79	92	97	33	97	56.6
May 31	97	99	94	91	86	74	95	**100**	**100**	98	94	88	77	67	61	61	54	52	54	55	64	95	91	88	52	**100**	80.6
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
Diurnal Average	70.9	71.9	73.8	76.3	77.8	76.2	72.4	65.4	58.3	52.9	49.0	46.1	44.2	41.7	40.1	39.5	39.1	38.3	39.5	43.4	53.4	64.0	68.1	70.8			

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

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



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

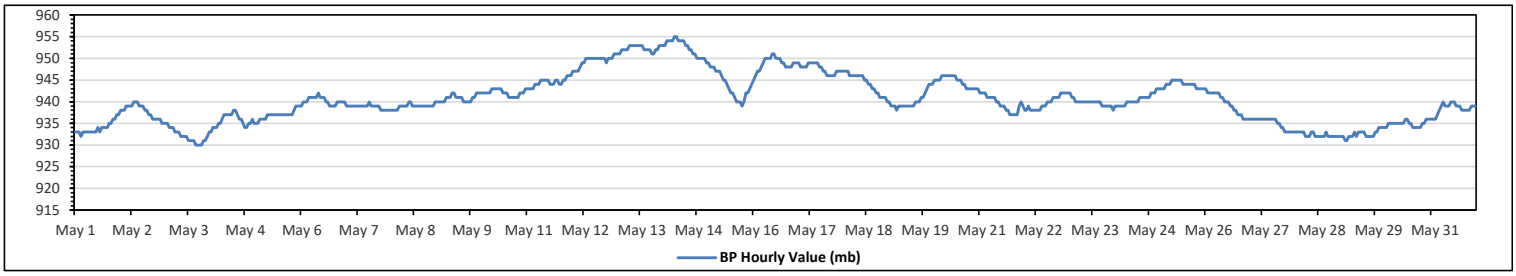
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	955	mb	on May 14 at hr 6	Hours in Service:	744
Maximum Daily Value:	952	mb	on May 14	Hours of Data:	744
Minimum Hourly Value:	930	mb	on May 3 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	932	mb	on May 3	Hours of Calibration:	0
Monthly Average:	941	mb		Operational Uptime:	100.0

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

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

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



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	30.5	°C	on May 14 at hr 16	Hours in Service:	744	
Maximum Daily Value:	22.2	°C	on May 5	Hours of Data:	744	
Minimum Hourly Value:	1.5	°C	on May 9 at hr 4	Hours of Missing Data:	0	
Minimum Daily Value:	7.4	°C	on May 23	Hours of Calibration:	0	
Monthly Average:	15.4	°C		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																						Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	14.3	13.8	13.5	12.3	8.1	7.3	9.5	14.3	18	18.1	19.1	20.5	21.6	22.1	23.5	23.9	23.9	23.7	23.2	21	17.5	15.5	15.3	13.9	7.3	23.9	17.2
May 2	12.7	11.4	10.9	10.1	9.4	7.2	8.8	15.6	18.4	20.2	21	21.7	22.6	23.3	24	24.3	24.5	24.3	24.1	23.1	17.7	13.4	11.6	15.6	7.2	24.5	17.3
May 3	14.6	14.7	14.4	14.3	14.3	14.3	15.9	19	20.4	21.7	22.8	24	25.2	25.8	26.6	27	27.2	27.4	27.4	26.2	21	16.4	14.5	12.5	12.5	27.4	20.3
May 4	10.8	9.2	8.2	7.5	7.9	12.6	13.8	15.6	16.8	19.1	20.9	21.3	19.4	21	23.6	25.2	26	26.3	26.3	25.2	22.8	21.2	20.5	20	7.5	26.3	18.4
May 5	19.4	19.7	18.8	17.4	16.5	16.1	16.8	19.7	24.3	26	26.9	27.2	27.2	27.1	26.3	25.8	25.1	24.6	24.6	23.4	21.9	20.7	19.5	18.7	16.1	27.2	**22.2**
May 6	17.3	15.8	14.7	13.5	12.3	11	11.6	13.5	15.2	16.2	16.8	17.5	17.2	18	18.5	19.1	19	18.7	18.3	17	14.9	14	13.3	12.2	11.0	19.1	15.7
May 7	11.6	10.8	8.2	7.6	7.2	6.8	7.3	9.7	12.4	13	11.3	9.8	7.5	7.6	8.7	9.5	8.9	8.3	8.1	8	7.7	7.2	6.9	6.2	6.2	13.0	8.8
May 8	5.6	5.1	4.6	3.8	3.1	2.6	4	5.1	6.7	8.5	10.5	12.3	13.8	14.7	15.2	15.8	16.2	16.1	16	14.9	11.2	8.3	6.4	5.2	2.6	16.2	9.4
May 9	4.3	3.4	2.5	2.2	**1.5**	**1.5**	4.7	9.4	12.5	14.6	17.3	19.1	19.6	20.6	21.5	21.3	21.1	20.6	20.6	19.5	15.3	12.1	10.5	8.6	**1.5**	21.5	12.7
May 10	6.7	6.2	5	4.1	3.5	3.7	6.3	12.7	18	20.6	23	23.1	22.5	22.8	22.9	22.2	22.7	22.9	21.7	20.5	17.5	14.7	11.8	11.5	3.5	23.1	15.3
May 11	11	10	8.7	6.3	7.7	8.7	11	13.5	16.4	18.9	20.5	21.6	21.7	22.4	19.2	17.7	14.7	18.5	19.8	19.2	16.6	14.6	14.5	13.1	6.3	22.4	15.3
May 12	11.8	11.4	11	10.2	9.8	9.8	10.8	13.4	15.7	17.9	20.5	22.9	23.7	24.4	24.9	25.2	25.5	25.6	25.6	24.5	18.8	16.4	15.4	15.5	9.8	25.6	17.9
May 13	15.4	15.3	12.8	13.3	13.3	13.3	15.1	17.2	18.8	20.5	23	24.4	26.7	27.4	27.8	27.9	28.1	28.6	28.3	26.2	20.3	16.7	14.5	13.4	12.8	28.6	20.3
May 14	11.7	10.7	9.8	8.8	8.1	8.5	11.6	17.5	23.7	26.3	27.4	28.6	28.9	29.8	30.1	30.4	**30.5**	30.3	29.8	26.9	21.6	17.9	17.2	15.7	8.1	**30.5**	20.9
May 15	16.9	16.5	16	14.7	14	13.6	15.8	18.1	20.6	24.1	26.4	27.5	28.4	28.6	28.5	28.8	28.8	27.6	26.5	23.4	20.5	19.4	18.3	17.3	13.6	28.8	21.7
May 16	16	14.4	13.9	13	11	9.4	11.2	11.6	12	12.7	13.9	15.1	16.3	17.4	18.3	19.4	19.7	19.7	19.4	18.2	15.7	11	8.3	5.9	5.9	19.7	14.3
May 17	4.5	3.5	2.9	1.9	2	2.7	8.2	11.8	15	17.1	18	18.6	19.8	21.4	21.4	21.5	21.7	21.6	21.1	19.8	17.1	12.2	8.8	6.9	1.9	21.7	13.3
May 18	5.4	5.9	7.6	7.3	5.8	5.4	7.5	10.9	14.3	16.6	18.3	20.2	20.5	21.5	22	21.1	20.3	19.6	19.4	18	16.4	14.9	13.8	13	5.4	22.0	14.4
May 19	12.8	12.3	11.7	8.3	7.2	9.1	10.2	11.4	13.9	16	19.4	22.5	24.7	25.3	26.1	26.5	26.3	24	21.4	18.6	17	15.3	13	10.8	7.2	26.5	16.8
May 20	8.9	10.4	9.9	7.9	7.6	10.2	10.5	10.6	11	11.9	13.1	14.6	15.7	16.5	17.2	17.7	18.2	18.4	18.3	17.3	15.1	13	10.4	11.2	7.6	18.4	13.2
May 21	11.5	11.2	10.8	9.1	8.4	9	10.5	13.3	16.6	19.1	21.3	23.3	25.9	26.3	26.3	26.9	26.7	26.6	26.2	24.2	21.7	16.6	14.8	14.2	8.4	26.9	18.4
May 22	13.9	13.6	13.9	13.5	13.1	13.3	13.7	14	13.7	13.1	12.8	13.3	12.9	11.7	11.5	11.3	11.1	11	10.8	10.6	10.2	9.2	8.1	7.9	7.9	14.0	12.0
May 23	7.6	7.5	7.2	7.1	6.9	6.6	6.5	6.3	6.3	6.4	6.5	6.5	6.9	7.3	7.6	8	8.4	8.9	9	8.7	8.4	8.2	8	7.9	6.3	9.0	**7.4**
May 24	7.9	7.9	7.5	7.2	7.1	7.1	7.2	7.2	7.2	7.5	8.1	9	9.6	9.7	10.8	13.5	15	15.5	15.4	14.1	12.8	11.6	10.6	9	7.1	15.5	9.9
May 25	8.1	6.7	5.6	4.6	4	4.5	7.5	11.9	15.3	16.7	16.8	17.8	18.9	18.9	17.3	17.3	18.2	18	16.9	17.7	14.6	11.3	9.8	8.2	4.0	18.9	12.8
May 26	7.1	6.2	5.3	4.8	4.3	5.7	9.8	14.1	16.8	19.7	21.3	21.4	22.1	22.9	23.8	24.4	24.2	23.9	23.9	23.3	19.4	14.2	13.9	14.9	4.3	24.4	16.1
May 27	14.6	14.3	13.9	13.6	14	14.1	15.9	17.5	18.7	20.3	21.2	21.9	23.3	23.7	24.3	24.9	24.9	24.8	24.5	23.9	22.3	20.2	19.4	18.4	13.6	24.9	19.8
May 28	17.1	15.3	14.2	13.3	12.2	13.7	14.9	16.4	17.7	17.9	18.4	20.5	20.3	20.8	20.4	20.1	19.7	20.1	20.1	19.9	18.9	16.3	15.1	14.7	12.2	20.8	17.4
May 29	13.6	12.1	9.7	8.6	9.3	11.3	13	14.2	15.6	16.3	16.9	17.5	18.2	19	19.7	20.1	20	19.8	19.4	18.4	16.3	13.5	9.4	6.3	6.3	20.1	14.9
May 30	5.1	6	6.1	6	4.9	5.6	9.7	11.3	13	15.3	13.9	13.1	15.3	17.8	18.7	18.9	19.6	19.5	19.7	19.3	15.8	11.4	9	7.5	4.9	19.7	12.6
May 31	6.8	5.3	6.6	7.7	9.1	9.8	8.3	8.1	8.5	9.5	10.2	11.3	12.3	13.2	13.1	14.4	15.5	16.1	16.5	16	14.4	10.1	9.9	10.2	5.3	16.5	11.0
Diurnal Maximum	19.4	19.7	18.8	17.4	16.5	16.1	16.8	19.7	24.3	26.3	27.4	28.6	28.9	29.8	30.1	30.4	30.5	30.3	29.8	26.9	22.8	21.2	20.5	20.0			
Diurnal Average	11.1	10.5	9.9	9.0	8.5	8.9	10.6	13.1	15.3	16.8	18.0	19.0	19.6	20.3	20.6	21.0	21.0	21.0	20.7	19.6	16.8	14.1	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)			

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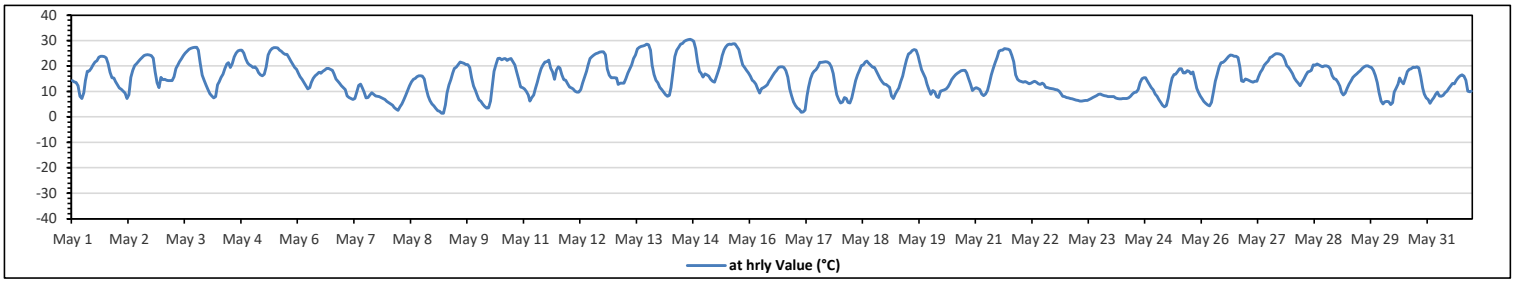


Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

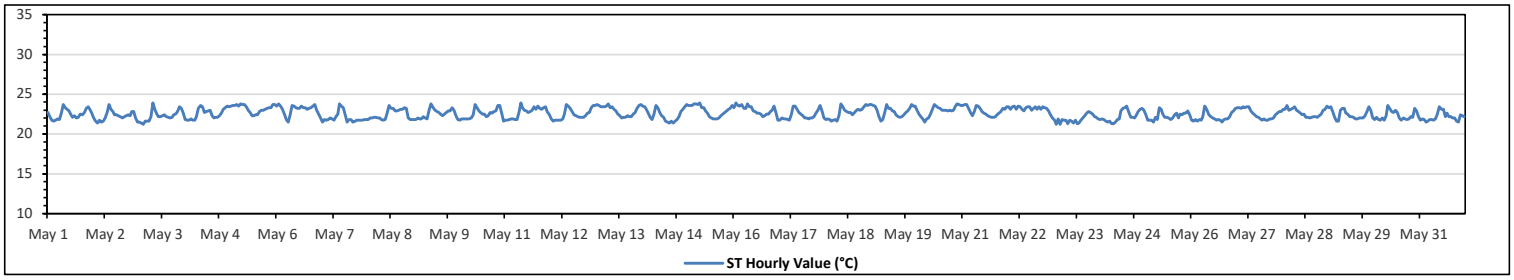
Maximum Hourly Value:	23.9	°C	on May 3 at hr 7	Hours in Service:	744	
Maximum Daily Value:	23.2	°C	on May 5	Hours of Data:	744	
Minimum Hourly Value:	21.2	°C	on May 3 at hr 2	Hours of Missing Data:	0	
Minimum Daily Value:	21.9	°C	on May 23	Hours of Calibration:	0	
Monthly Average:	22.6	°C		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	22.7	22.2	21.7	21.6	21.7	21.9	21.8	22.6	23.7	23.3	23.1	22.9	22.4	22.1	22.3	22.0	22.1	22.5	22.4	22.7	23.2	23.4	23.1	22.6	21.6	23.7	22.5
May 2	22.0	21.6	21.4	21.7	21.5	21.6	22.0	22.7	23.7	23.1	22.8	22.4	22.4	22.3	22.2	22.0	22.2	22.3	22.4	22.3	22.8	22.8	22.0	21.5	21.4	23.7	22.2
May 3	21.5	21.4	**21.2**	21.6	21.6	21.6	22.2	**23.9**	23.1	22.6	22.2	22.2	22.3	22.4	22.2	22.1	22.0	22.1	22.4	22.5	22.8	23.4	23.2	22.6	**21.2**	**23.9**	22.3
May 4	21.8	21.7	21.7	21.9	21.7	21.7	22.2	23.2	23.6	23.4	22.7	22.8	22.9	23.0	22.3	22.0	22.1	22.1	22.3	22.6	23.1	23.3	23.5	23.4	21.7	23.6	22.5
May 5	23.5	23.6	23.6	23.7	23.5	23.8	23.7	23.7	23.4	23.0	22.7	22.3	22.3	22.4	22.4	22.8	23.0	23.0	23.1	23.2	23.3	23.3	23.7	23.7	22.3	23.8	**23.2**
May 6	23.5	23.8	23.5	23.1	22.5	21.8	21.5	22.4	23.6	23.5	23.3	23.2	23.2	23.5	23.3	23.3	23.1	23.2	23.3	23.5	23.7	23.0	22.5	22.0	21.5	23.8	23.1
May 7	21.5	21.8	21.7	21.8	22.0	21.9	21.7	22.2	22.5	23.8	23.5	23.3	22.4	21.5	21.8	21.8	21.5	21.6	21.7	21.7	21.7	21.7	21.8	21.8	21.5	23.8	22.0
May 8	21.8	22.0	22.0	22.1	22.1	22.0	22.0	21.8	21.7	21.8	22.6	23.6	23.2	23.2	22.9	22.9	23.0	23.1	23.1	23.3	23.2	22.0	21.8	21.8	21.7	23.6	22.5
May 9	21.8	21.8	22.0	21.9	21.9	22.2	22.0	21.9	23.0	23.8	23.3	23.0	22.8	22.7	22.5	22.3	22.5	22.7	22.9	22.9	23.3	23.0	22.3	21.8	21.8	23.8	22.5
May 10	21.7	21.9	21.9	21.9	21.9	21.9	22.0	22.4	23.7	23.3	22.9	22.7	22.5	22.5	22.2	22.3	22.7	22.6	22.8	22.9	23.6	23.6	22.6	21.6	21.6	23.7	22.5
May 11	21.7	21.7	21.8	21.9	21.9	21.8	21.8	22.7	**23.9**	23.3	23.0	22.9	22.7	22.8	23.0	23.4	23.1	23.5	23.2	23.1	23.3	23.4	22.8	22.4	21.7	**23.9**	22.7
May 12	21.9	21.6	21.7	21.7	21.7	21.7	21.9	22.5	23.7	23.5	23.2	22.8	22.4	22.3	22.2	22.1	22.1	22.1	22.3	22.6	22.7	23.3	23.6	23.6	21.6	23.7	22.5
May 13	23.7	23.6	23.4	23.4	23.4	23.5	23.8	23.3	23.4	23.1	22.9	22.5	22.3	22.0	22.1	22.1	22.3	22.2	22.2	22.5	22.7	23.2	23.6	23.7	22.0	23.8	23.0
May 14	23.5	23.4	23.1	22.6	22.1	21.8	22.5	23.6	23.3	22.7	22.3	22.1	21.6	21.5	21.4	21.6	21.4	21.6	21.8	22.2	22.8	23.1	23.4	23.7	21.4	23.7	22.5
May 15	23.6	23.6	23.6	23.8	23.8	23.7	**23.9**	23.3	23.3	22.9	22.6	22.2	22.0	21.9	21.9	21.9	22.0	22.3	22.5	22.7	22.9	23.1	23.2	23.6	21.9	**23.9**	22.9
May 16	23.3	**23.9**	23.6	23.5	23.7	23.2	23.2	23.8	23.4	23.4	22.9	22.8	22.6	22.6	22.5	22.2	22.3	22.5	22.5	22.8	23.0	23.5	22.7	21.7	21.7	**23.9**	23.0
May 17	21.7	22.0	21.9	21.9	21.8	21.7	22.4	23.5	23.5	23.1	22.7	22.5	22.3	22.0	22.0	21.9	22.0	22.0	22.2	22.6	23.0	23.6	22.9	22.0	21.7	23.6	22.4
May 18	21.8	21.9	21.8	21.6	21.7	21.8	21.6	22.3	23.8	23.4	23.0	22.8	22.7	22.7	22.4	22.6	22.9	23.1	23.0	23.1	23.4	23.7	23.6	23.7	21.6	23.8	22.7
May 19	23.7	23.6	23.5	23.0	22.2	21.6	21.8	22.7	23.7	23.2	23.2	22.9	22.8	22.4	22.2	22.1	22.2	22.4	22.7	22.9	23.2	23.7	23.5	23.5	21.6	23.7	22.9
May 20	23.0	22.5	22.2	21.9	21.5	21.9	22.0	22.5	23.1	23.7	23.5	23.3	23.2	23.0	23.0	23.0	22.9	23.0	22.9	23.0	23.4	23.8	23.7	23.6	21.5	23.8	22.9
May 21	23.6	23.7	23.7	23.2	22.7	22.3	22.8	23.6	23.5	23.2	22.8	22.6	22.5	22.3	22.2	22.1	22.1	22.2	22.4	22.6	22.8	23.2	23.1	23.4	22.1	23.7	22.9
May 22	23.4	23.1	23.4	23.5	23.1	23.5	23.4	23.1	22.9	23.3	23.4	23.4	23.0	23.2	23.4	23.1	23.4	23.1	23.4	23.3	23.2	22.9	22.4	22.0	22.0	23.5	23.2
May 23	21.7	**21.2**	21.9	**21.2**	21.8	21.7	21.7	21.3	21.7	21.6	21.4	21.7	21.3	21.4	21.7	22.0	22.3	22.6	22.8	22.7	22.5	22.2	22.1	21.9	**21.2**	22.8	**21.9**
May 24	21.8	21.9	21.8	21.6	21.5	21.6	21.3	21.3	21.5	21.8	21.9	22.9	23.2	23.3	23.5	22.8	22.1	22.1	22.0	22.4	22.8	23.1	23.2	23.0	21.3	23.5	22.3
May 25	22.4	21.7	21.7	21.7	21.5	22.1	21.8	23.3	23.1	22.5	22.1	22.1	22.0	21.8	22.0	22.4	22.6	22.0	22.5	22.4	22.6	22.6	22.9	22.4	21.5	23.3	22.3
May 26	21.7	21.6	21.8	21.6	21.8	21.7	22.2	23.5	23.1	22.4	22.2	22.0	21.9	21.7	21.8	21.7	21.5	21.8	21.9	21.9	22.2	22.7	22.9	23.2	21.5	23.5	22.1
May 27	23.3	23.3	23.2	23.4	23.3	23.4	23.4	22.9	22.6	22.4	22.2	22.1	21.9	21.7	21.9	21.7	21.7	21.9	21.9	22.0	22.4	22.6	22.8	22.8	21.7	23.4	22.5
May 28	23.1	23.1	23.6	23.0	23.1	23.2	23.4	23.0	22.8	22.6	22.4	22.5	22.1	22.1	22.0	22.1	22.2	22.2	22.1	22.3	22.5	23.0	23.1	23.5	22.0	23.6	22.7
May 29	23.3	23.4	22.8	22.1	21.6	21.6	23.0	23.2	23.2	22.6	22.5	22.2	22.2	22.1	21.9	21.9	22.0	22.0	22.0	22.3	22.8	23.4	23.0	22.0	21.6	23.4	22.5
May 30	21.8	22.1	21.8	21.7	22.0	21.7	22.3	23.6	23.2	22.8	22.7	23.0	22.7	22.0	21.7	22.0	21.9	21.8	21.9	22.2	22.1	23.2	22.9	22.2	21.7	23.6	22.3
May 31	21.7	21.9	21.8	21.5	21.6	21.8	21.8	21.7	21.9	22.5	23.4	23.1	23.1	22.2	22.6	22.2	22.2	22.0	22.0	21.6	21.5	22.4	22.3	22.2	21.5	23.4	22.1
Diurnal Maximum	23.7	23.9	23.7	23.8	23.8	23.8	23.9	23.9	23.9	23.8	23.5	23.6	23.2	23.5	23.5	23.4	23.4	23.5	23.4	23.5	23.7	23.8	23.7	23.7			
Diurnal Average	22.5	22.5	22.4	22.3	22.2	22.2	22.4	22.8	23.1	23.0	22.8	22.7	22.5	22.3	22.3	22.3	22.3	22.4	22.5	22.6	22.9	23.1	22.9	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

842-B Station - May 2023

Summary of Hourly Averages

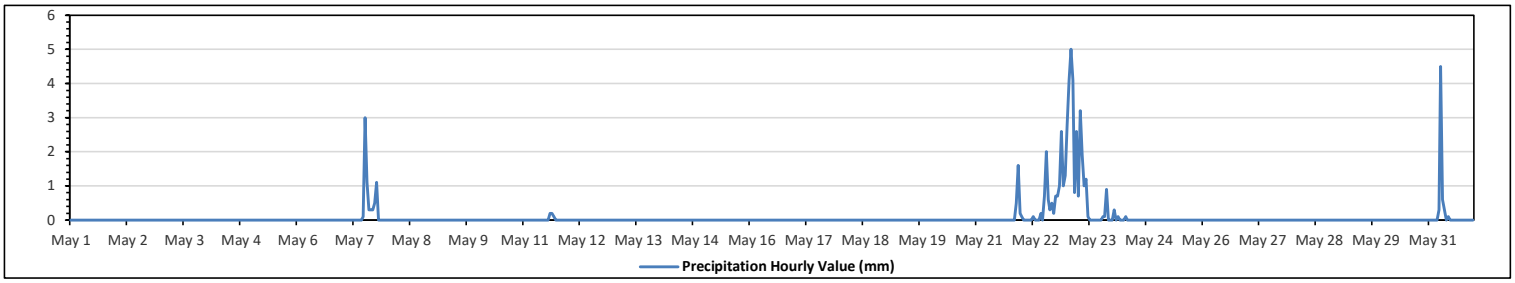
PRECIPITATION in mm

Maximum Hourly Value:	5.0	mm	on May 23 at hr 2	Hours in Service:	744		
Maximum Daily Value:	28.6	mm	on May 23	Hours of Data:	744		
Minimum Hourly Value:	0.0	mm	on May 1 at hr 0	Hours of Missing Data:	0		
Minimum Daily Value:	0.0	mm	on May 1	Hours of Calibration:	0		
Monthly Total:	56.4	mm		Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 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
May 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
May 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
May 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
May 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
May 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
May 7	0	0	0	0	0	0	0	0	0	0	0	0.1	3	1.1	0.3	0.3	0.3	0.5	1.1	0	0	0	0	0	0.0	3.0	6.7
May 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
May 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	0.1	0	0	0	0	0	0	0	0.0	0.2	0.5
May 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
May 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
May 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
May 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
May 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
May 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 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
May 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.6	0.2	0.0	1.6	2.3
May 22	0.1	0	0	0	0	0	0.1	0	0	0	0.2	0	0.7	2	0.6	0.3	0.5	0.2	0.7	0.7	1	2.6	1	1.3	0.0	2.6	12.0
May 23	2.8	4.1	**5**	4.1	0.8	2.6	0.7	3.2	1.9	1	1.2	0.1	0	0	0	0	0	0	0	0.1	0.1	0.9	0	0	0.0	**5.0**	**28.6**
May 24	0	0.3	0	0.1	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	0.5
May 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 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
May 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
May 31	0	0	0	0	0	0.3	4.5	0.6	0.3	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	4.5	5.8
Diurnal Maximum	2.8	4.1	5.0	4.1	0.8	2.6	4.5	3.2	1.9	1.0	1.2	0.1	3.0	2.0	0.6	0.3	0.5	0.5	1.1	0.7	1.0	2.6	1.6	1.3			
Diurnal Average	0.1	0.1	0.2	0.1	0.0	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0			

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

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



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

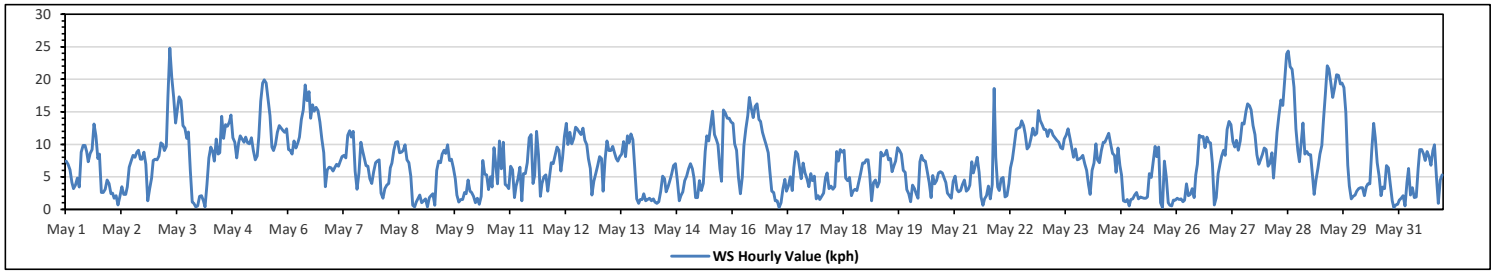
VECTOR WIND SPEED (VWS) in km/hr

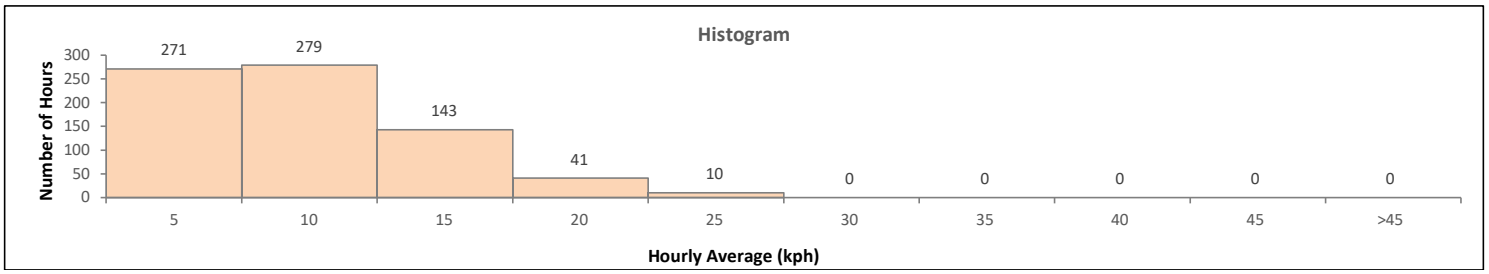
Maximum Hourly Value:	24.8	kph	on May 3 at hr 8	Hours in Service:	744	
Maximum Daily Value:	13.0	kph	on May 28	Hours of Data:	744	
Minimum Hourly Value:	0.3	kph	on May 17 at hr 1	Hours of Missing Data:	0	
Minimum Daily Value:	3.1	kph	on May 14	Hours of Calibration:	0	
Monthly Average:	1.3	kph		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	7.4	6.9	6.1	4.1	3.2	3.7	4.8	3.4	8.8	9.8	9.8	8.9	7.3	8.6	9.2	13.1	11.3	7.8	8.5	2.6	2.6	3.1	4.5	4.0	2.6	13.1	6.6
May 2	2.4	2.5	1.7	2.1	0.7	2.0	3.5	2.3	2.3	3.4	6.5	7.4	8.3	8.0	8.8	9.1	7.7	7.7	8.8	6.9	1.3	3.2	4.8	7.5	0.7	9.1	5.0
May 3	7.7	7.6	8.2	10.2	10.0	9.0	9.7	17.3	**24.8**	20.3	17.2	13.3	15.5	17.3	16.7	12.9	12.5	10.9	11.9	6.0	1.1	0.9	0.4	0.5	0.4	**24.8**	10.9
May 4	2.0	2.1	1.3	0.4	3.8	7.9	9.6	8.9	7.4	10.8	8.5	8.7	14.3	10.9	13.0	12.8	13.4	14.5	11.0	10.3	7.9	10.2	11.3	10.8	0.4	14.5	8.8
May 5	10.3	11.1	10.2	10.1	11.0	9.0	7.6	8.2	11.1	16.6	19.4	19.9	19.4	16.9	14.4	9.6	9.0	10.0	11.8	12.9	12.5	12.1	11.8	12.4	7.6	19.9	12.4
May 6	9.2	9.1	8.5	10.5	9.4	10.2	11.1	13.8	15.3	19.1	16.7	18.1	14.0	16.1	15.1	15.7	15.2	13.4	10.8	8.7	3.5	6.1	6.5	6.4	3.5	19.1	11.8
May 7	5.9	6.5	6.9	6.6	7.3	8.1	8.3	7.9	11.4	12.1	11.1	12.0	5.9	3.1	5.6	10.3	9.1	7.8	6.7	6.6	4.7	4.0	5.8	7.2	3.1	12.1	7.5
May 8	7.4	7.6	2.5	1.7	3.2	3.7	4.0	6.4	7.1	9.1	10.3	10.4	8.7	8.8	9.0	9.9	7.6	7.2	5.1	0.6	0.4	1.1	1.6	2.2	0.4	10.4	5.7
May 9	1.0	1.3	1.6	0.4	1.8	2.1	2.4	0.6	6.0	7.4	7.2	8.5	9.1	8.6	9.9	7.5	7.7	6.4	4.7	2.2	1.1	1.5	1.5	2.6	0.4	9.9	4.3
May 10	2.4	4.5	2.8	2.6	2.0	1.0	1.7	0.8	2.0	7.5	5.4	5.3	3.0	5.0	3.4	9.5	6.6	3.9	10.5	6.2	10.3	3.8	3.6	3.2	0.8	10.5	4.5
May 11	6.6	6.1	1.8	3.6	4.7	6.5	1.3	5.5	5.5	7.2	11.0	11.5	4.0	5.2	12.0	8.4	2.0	4.0	5.0	5.3	2.8	4.8	7.2	7.0	1.3	12.0	5.8
May 12	8.3	9.6	9.1	5.9	7.8	11.2	13.2	10.0	11.8	10.1	10.9	12.6	12.4	11.9	11.5	12.5	10.6	9.9	7.8	6.3	2.2	4.3	5.5	6.7	2.2	13.2	9.3
May 13	8.1	7.8	2.8	7.6	10.5	9.0	9.0	9.7	8.8	7.8	7.4	8.1	8.5	10.4	8.1	11.3	10.2	11.6	10.7	6.2	1.6	0.9	1.5	1.5	0.9	11.6	7.5
May 14	2.4	1.3	1.5	1.7	1.3	1.6	1.1	0.9	1.2	2.8	5.1	4.7	2.7	3.5	4.3	5.4	6.7	7.0	4.4	1.3	2.1	2.7	4.4	5.1	0.9	7.0	**3.1**
May 15	6.2	7.0	6.2	4.8	1.8	1.8	4.4	2.9	4.0	8.9	11.3	10.5	12.9	15.1	11.5	10.7	9.9	6.2	4.3	15.3	14.8	14.0	14.0	13.4	1.8	15.3	8.8
May 16	13.2	10.1	9.1	4.9	2.4	5.0	9.8	12.4	14.4	17.2	15.5	14.1	15.8	16.2	13.8	13.5	11.8	10.8	9.8	8.7	5.9	2.8	2.6	1.3	1.3	17.2	10.0
May 17	1.3	**0.3**	1.0	3.2	4.6	2.8	3.6	5.0	2.9	6.4	8.9	8.5	6.4	4.7	7.1	5.6	4.7	3.5	5.5	4.4	5.1	1.6	2.1	1.5	**0.3**	8.9	4.2
May 18	2.0	2.5	4.9	5.6	3.2	3.6	3.1	3.5	8.9	7.4	9.2	8.8	9.1	4.8	4.4	4.9	2.1	2.8	3.1	2.9	4.2	5.6	7.1	7.1	2.0	9.2	5.0
May 19	7.6	7.6	5.4	1.3	4.1	4.5	3.4	4.2	8.8	8.2	8.4	9.1	7.6	7.8	5.8	6.7	7.4	9.5	9.1	8.5	6.0	5.7	3.0	2.4	1.3	9.5	6.3
May 20	1.2	3.7	3.2	2.3	1.7	7.3	8.3	7.5	7.4	5.8	4.1	1.8	5.2	3.9	4.4	5.6	5.8	5.6	4.9	4.1	2.5	2.1	1.7	4.3	1.2	8.3	4.4
May 21	5.1	3.0	2.7	2.9	3.8	4.5	2.8	3.1	3.7	7.3	5.6	6.7	8.0	5.7	1.9	0.6	1.6	2.1	3.6	1.6	3.8	18.6	8.0	3.4	0.6	18.6	4.6
May 22	2.9	4.7	4.9	1.9	2.1	3.9	6.4	7.7	9.9	12.3	12.5	12.6	13.6	12.9	11.6	9.3	9.7	10.9	12.5	11.4	11.7	15.2	13.7	13.0	1.9	15.2	9.5
May 23	12.3	12.2	11.2	12.2	12.1	11.4	11.0	10.6	10.3	9.5	9.3	10.8	11.4	12.4	10.9	9.6	8.0	9.3	7.6	7.7	7.9	8.3	7.0	6.0	6.0	12.4	10.0
May 24	3.7	2.3	6.0	7.1	10.1	7.6	7.2	9.0	10.3	10.3	11.0	11.7	10.1	8.6	8.3	5.7	9.4	6.7	5.3	1.3	1.2	1.5	0.5	1.5	0.5	11.7	6.5
May 25	1.6	2.2	2.6	1.6	1.9	1.8	1.7	1.7	1.9	5.5	4.9	7.3	9.7	8.1	9.6	1.0	**0.3**	7.4	4.9	1.0	0.6	0.5	1.4	1.4	**0.3**	9.7	3.4
May 26	1.7	1.5	1.6	1.2	1.4	3.9	2.1	2.3	3.2	1.8	5.3	6.9	11.4	11.1	11.2	9.5	11.1	10.3	10.2	7.0	0.7	1.8	5.5	7.0	0.7	11.4	5.4
May 27	8.2	9.1	8.3	12.3	13.5	13.0	10.4	9.6	10.6	9.1	10.5	13.3	13.1	15.1	16.2	15.9	15.3	12.9	11.5	8.4	6.9	7.7	8.4	9.4	6.9	16.2	11.2
May 28	9.2	6.6	7.1	8.7	4.8	8.5	11.8	14.5	16.8	16.0	19.9	23.9	24.3	21.9	21.5	18.8	12.4	9.0	7.3	10.5	13.3	8.5	8.9	8.4	4.8	24.3	**13.0**
May 29	8.4	5.1	2.3	4.6	6.4	8.5	9.8	13.7	17.7	22.1	21.6	19.5	17.2	18.7	20.7	20.6	19.3	19.4	18.7	14.9	6.8	3.6	1.6	2.0	1.6	22.1	12.6
May 30	2.2	2.8	3.2	3.3	3.3	2.1	3.5	3.9	3.9	9.1	13.2	11.0	7.2	5.1	2.1	3.4	3.2	6.7	6.4	3.8	1.3	**0.3**	0.7	0.8	**0.3**	13.2	4.3
May 31	1.4	1.7	2.1	0.5	4.1	6.3	2.2	3.3	1.8	1.9	6.3	9.2	9.2	8.5	7.5	8.9	8.1	6.8	9.0	9.9	5.1	0.9	4.5	5.3	0.5	9.9	5.2
Diurnal Maximum	13.2	12.2	11.2	12.3	13.5	13.0	13.2	17.3	24.8	22.1	21.6	23.9	24.3	21.9	21.5	20.6	19.3	19.4	18.7	15.3	14.8	18.6	14.0	13.4			
Diurnal Average	5.5	5.4	4.7	4.7	5.1	5.9	6.1	6.8	8.4	9.8	10.5	10.8	10.5	10.2	10.0	9.6	8.7	8.5	8.1	6.6	4.9	5.1	5.2	5.3			

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.



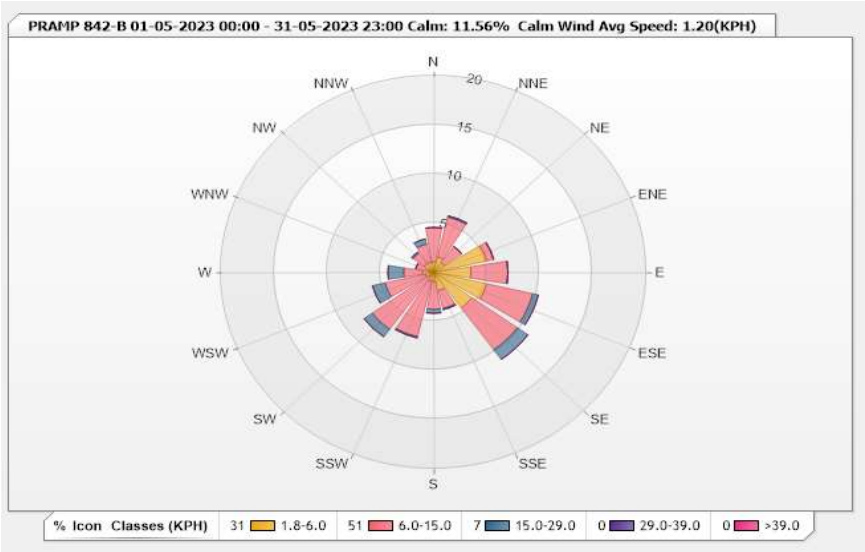


Station: PRAMP 842-B Monitor: WDS [KPH] Monthly: 05-2023

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

Calm (WS<1.8kph): 11.56% 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	1.08	3.49	0	0	0	4.57
NNE	1.61	4.17	0.13	0	0	5.91
NE	1.21	2.02	0	0	0	3.23
ENE	5.11	0.67	0	0	0	5.78
E	3.49	3.49	0	0	0	6.98
ESE	5.11	4.44	0.54	0	0	10.09
SE	4.44	5.24	1.21	0	0	10.89
SSE	1.88	1.88	0.13	0	0	3.89
S	0.94	2.82	0.4	0	0	4.16
SSW	0.94	5.78	0.13	0	0	6.85
SW	0.54	6.59	0.94	0	0	8.07
WSW	0.81	3.9	1.21	0	0	5.92
W	1.08	1.75	1.48	0	0	4.31
WNW	0.4	1.34	0	0	0	1.74
NW	1.08	1.34	0.13	0	0	2.55
NNW	1.08	1.88	0.54	0	0	3.5
Summary	30.8	50.8	6.84	0	0	88.44



Peace River Area Monitoring Program

842-B Station - May 2023

Summary of Hourly Averages

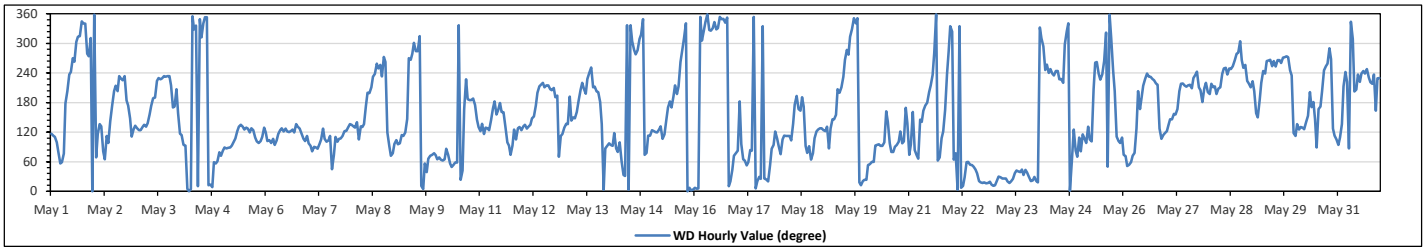
WIND DIRECTION (VWD) in sector

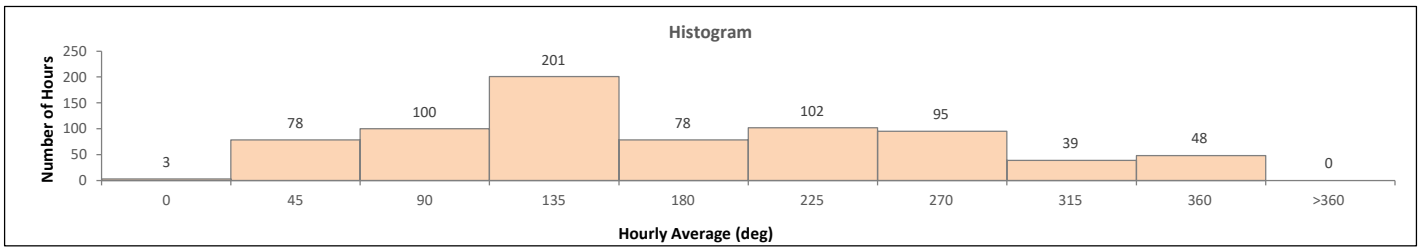
Monthly Average:	170 (SSE)	degree	
Hours in Service:	744		
Hours of Data:	744		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																							Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
May 1	ESE	ESE	ESE	E	ENE	NE	ENE	ENE	S	SSW	SW	WSW	W	W	WNW	NW	NW	NNW	NNW	NNW	W	W	NW	N	293	WNW
May 2	N	ENE	ESE	SE	SE	E	ENE	ESE	E	SE	S	SSW	SSW	SSW	SW	SW	SW	SW	S	S	SE	ESE	SE	SE	184	S
May 3	SE	ESE	ESE	SE	SE	SE	SE	SSE	S	S	S	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSE	S	SSW	SSE	191	S
May 4	ESE	ESE	E	E	N	N	N	N	NNW	NNW	N	NNW	NW	NNW	N	N	NNE	NNE	N	ENE	NE	ENE	ENE	ENE	11	NNE
May 5	E	E	E	E	E	E	E	ESE	ESE	SE	SE	SE	SE	SE	SE	ESE	SE	ESE	ESE	E	E	E	ESE	SE	114	ESE
May 6	ESE	E	ESE	E	ESE	E	ESE	ESE	ESE	SE	ESE	SE	ESE	ESE	ESE	SE	ESE	SE	SE	SE	ESE	ESE	E	ESE	118	ESE
May 7	E	E	E	E	E	E	E	ESE	SE	ESE	E	ESE	ESE	NE	ENE	ESE	E	ESE	ESE	ESE	ESE	ESE	SE	SE	104	ESE
May 8	SE	SE	SE	SE	ESE	SE	SE	SE	S	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	SW	W	W	ESE	E	ENE	ENE	201	SSW
May 9	E	ESE	E	E	ESE	ESE	ESE	SE	W	W	W	WNW	WNW	WNW	NW	NNE	N	NE	NE	ENE	ENE	ENE	ENE	ENE	328	NNW
May 10	ENE	ENE	ENE	ENE	ENE	E	ENE	NE	NE	NE	ENE	ENE	NNW	NNE	NE	SSE	SW	S	S	S	S	S	SE	SE	126	SE
May 11	ESE	SE	ESE	SE	SE	ESE	SE	SSE	S	SSE	SSE	S	SSE	SSE	SE	E	E	ENE	E	SE	ESE	SE	SE	ESE	137	SE
May 12	SE	SE	SE	SE	SE	SE	SSE	S	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	ENE	ESE	ESE	SE	181	S
May 13	SE	SE	S	SE	SSE	SE	SSE	S	SSW	SW	SSW	SSW	SW	WSW	WSW	SSW	SSW	SSW	SSW	S	SE	N	E	E	190	S
May 14	E	E	E	ESE	E	E	E	ENE	NNE	NNE	NNW	N	NNW	WNW	WNW	W	WNW	NW	NW	NNW	ENE	ENE	ESE	ESE	352	N
May 15	ESE	ESE	ESE	ESE	SE	SE	ESE	ESE	SE	SSE	S	SSE	S	SSW	SSW	SSW	W	WNW	NW	NNW	N	N	N	N	194	SSW
May 16	N	N	N	N	NW	NW	NNW	N	NW	NW	NNW	NNW	NNW	NNW	N	NNW	N	NNW	N	N	NNE	NE	ENE	ENE	347	NNW
May 17	E	S	E	ENE	ENE	NE	ENE	E	E	N	N	NNE	NNE	NNE	NNW	NNE	NNE	NNE	NE	E	E	ESE	ESE	E	40	NE
May 18	ENE	ESE	ESE	ESE	ESE	ESE	ESE	SE	S	S	SSE	SSE	S	S	E	ENE	E	ENE	ESE	ESE	ESE	SE	SE	SE	136	SE
May 19	ESE	ESE	SE	E	SE	SE	SE	SSE	SSW	SSW	SSW	SW	W	WNW	W	NW	NNW	N	NNW	N	NNE	NNE	NNE	NNE	279	W
May 20	NNE	NE	NE	ENE	ENE	E	E	E	E	E	E	SSE	SE	E	E	E	E	E	E	ESE	E	E	SSE	SE	95	E
May 21	ENE	E	SSE	E	ENE	ENE	SE	SE	SSE	S	S	SSW	SSW	SW	W	N	ENE	ENE	ESE	ESE	SSE	SW	W	NNW	186	S
May 22	NW	ENE	ENE	N	NNW	N	NNE	NNE	ENE	ENE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	31	NNE
May 23	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE	29	NNE
May 24	NNE	NNW	NW	WNW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SW	WNW	NW	NNW	N	ENE	SE	E	ENE	ESE	260	WSW
May 25	E	ESE	ESE	E	SE	ESE	E	SSW	W	W	SW	SW	SW	W	NW	NE	N	NW	WSW	SSW	ESE	E	E	ESE	252	WSW
May 26	ENE	ENE	NE	NE	ENE	ENE	ENE	SE	SSW	SSE	S	SSW	SW	WSW	SW	SW	SW	SW	SW	SW	SE	ESE	ESE	ESE	208	SSW
May 27	ESE	SE	SE	SE	SSE	SSE	SSE	SSW	SW	SW	SSW	SSW	SSW	SW	SSW	SW	SW	WSW	SSW	SSW	S	SSW	SW	SSW	199	SSW
May 28	SSW	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	SW	WSW	WSW	WSW	W	W	W	WNW	W	WSW	WSW	SW	SW	SSW	245	WSW
May 29	SW	SSW	SSE	SSE	S	SW	WSW	WSW	W	W	W	WSW	W	WSW	W	W	WSW	W	W	W	W	WSW	SW	ESE	256	WSW
May 30	ESE	SE	SE	SE	SE	SE	SE	SSE	SSW	S	S	SE	E	SSE	S	SSW	WSW	WSW	WSW	WNW	W	SE	ESE	ESE	170	SSE
May 31	E	ESE	SE	SSW	WSW	SW	E	NNW	NW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSE	SW	SW	229	SW

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 - May 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	24.8	kph	on May 3 at hr 8	Hours in Service:	744
Maximum Daily Value:	13.0	kph	on May 28	Hours of Data:	744
Minimum Hourly Value:	0.3	kph	on May 17 at hr 1	Hours of Missing Data:	0
Minimum Daily Value:	3.1	kph	on May 14	Hours of Calibration:	0
Monthly Average:	1.3	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 170 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			
May 1	7.4	6.9	6.1	4.1	3.2	3.7	4.8	3.4	8.8	9.8	9.8	8.9	7.3	8.6	9.2	13.1	11.3	7.8	8.5	2.6	2.6	3.1	4.5	4.0	2.6	13.1	6.6
	ESE	ESE	ESE	E	ENE	NE	ENE	ENE	S	SSW	SW	WSW	W	W	WNW	NW	NW	NNW	NNW	NNW	W	W	NW	N			
May 2	2.4	2.5	1.7	2.1	0.7	2.0	3.5	2.3	2.3	3.4	6.5	7.4	8.3	8.0	8.8	9.1	7.7	7.7	8.8	6.9	1.3	3.2	4.8	7.5	0.7	9.1	5.0
	N	ENE	ESE	SE	SE	E	ENE	ESE	E	SE	S	SSW	SSW	SSW	SW	SW	SW	SW	S	S	SE	ESE	SE	SE			
May 3	7.7	7.6	8.2	10.2	10.0	9.0	9.7	17.3	**24.8**	20.3	17.2	13.3	15.5	17.3	16.7	12.9	12.5	10.9	11.9	6.0	1.1	0.9	0.4	0.5	0.4	**24.8**	10.9
	SE	ESE	ESE	SE	SE	SE	SE	SSE	S	S	S	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSE	S	SSW	SSE			
May 4	2.0	2.1	1.3	0.4	3.8	7.9	9.6	8.9	7.4	10.8	8.5	8.7	14.3	10.9	13.0	12.8	13.4	14.5	11.0	10.3	7.9	10.2	11.3	10.8	0.4	14.5	8.8
	ESE	ESE	E	E	N	N	N	N	NNW	NNW	N	NNW	NW	NNW	N	N	NNE	NNE	N	ENE	NE	ENE	ENE	ENE			
May 5	10.3	11.1	10.2	10.1	11.0	9.0	7.6	8.2	11.1	16.6	19.4	19.9	19.4	16.9	14.4	9.6	9.0	10.0	11.8	12.9	12.5	12.1	11.8	12.4	7.6	19.9	12.4
	E	E	E	E	E	E	E	ESE	ESE	SE	SE	SE	SE	SE	SE	ESE	SE	ESE	ESE	E	E	E	ESE	SE			
May 6	9.2	9.1	8.5	10.5	9.4	10.2	11.1	13.8	15.3	19.1	16.7	18.1	14.0	16.1	15.1	15.7	15.2	13.4	10.8	8.7	3.5	6.1	6.5	6.4	3.5	19.1	11.8
	ESE	E	ESE	E	ESE	E	ESE	ESE	ESE	SE	ESE	SE	ESE	ESE	ESE	SE	ESE	SE	SE	SE	ESE	ESE	E	ESE			
May 7	5.9	6.5	6.9	6.6	7.3	8.1	8.3	7.9	11.4	12.1	11.1	12.0	5.9	3.1	5.6	10.3	9.1	7.8	6.7	6.6	4.7	4.0	5.8	7.2	3.1	12.1	7.5
	E	E	E	E	E	E	E	ESE	SE	ESE	E	ESE	ESE	NE	ENE	ESE	E	ESE	ESE	ESE	ESE	ESE	SE	SE			
May 8	7.4	7.6	2.5	1.7	3.2	3.7	4.0	6.4	7.1	9.1	10.3	10.4	8.7	8.8	9.0	9.9	7.6	7.2	5.1	0.6	0.4	1.1	1.6	2.2	0.4	10.4	5.7
	SE	SE	SE	SE	ESE	SE	SE	SE	S	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	SW	W	W	ESE	E	ENE	ENE			
May 9	1.0	1.3	1.6	0.4	1.8	2.1	2.4	0.6	6.0	7.4	7.2	8.5	9.1	8.6	9.9	7.5	7.7	6.4	4.7	2.2	1.1	1.5	1.5	2.6	0.4	9.9	4.3
	E	ESE	E	E	ESE	ESE	ESE	SE	W	W	W	WNW	WNW	WNW	NW	NNE	N	NE	NE	ENE	ENE	ENE	ENE	ENE			
May 10	2.4	4.5	2.8	2.6	2.0	1.0	1.7	0.8	2.0	7.5	5.4	5.3	3.0	5.0	3.4	9.5	6.6	3.9	10.5	6.2	10.3	3.8	3.6	3.2	0.8	10.5	4.5
	ENE	ENE	ENE	ENE	ENE	E	ENE	NE	NE	NE	ENE	ENE	NNW	NNE	NE	SSE	SW	S	S	S	S	S	SE	SE			
May 11	6.6	6.1	1.8	3.6	4.7	6.5	1.3	5.5	5.5	7.2	11.0	11.5	4.0	5.2	12.0	8.4	2.0	4.0	5.0	5.3	2.8	4.8	7.2	7.0	1.3	12.0	5.8
	ESE	SE	ESE	SE	SE	ESE	SE	SSE	S	SSE	SSE	S	SSE	SSE	SE	E	E	ENE	E	SE	ESE	SE	SE	ESE			
May 12	8.3	9.6	9.1	5.9	7.8	11.2	13.2	10.0	11.8	10.1	10.9	12.6	12.4	11.9	11.5	12.5	10.6	9.9	7.8	6.3	2.2	4.3	5.5	6.7	2.2	13.2	9.3
	SE	SE	SE	SE	SE	SE	SSE	S	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	ENE	ESE	ESE	SE			
May 13	8.1	7.8	2.8	7.6	10.5	9.0	9.0	9.7	8.8	7.8	7.4	8.1	8.5	10.4	8.1	11.3	10.2	11.6	10.7	6.2	1.6	0.9	1.5	1.5	0.9	11.6	7.5
	SE	SE	S	SE	SSE	SE	SSE	S	SSW	SW	SSW	SSW	SW	WSW	WSW	SSW	SSW	SSW	SSW	S	SE	N	E	E			
May 14	2.4	1.3	1.5	1.7	1.3	1.6	1.1	0.9	1.2	2.8	5.1	4.7	2.7	3.5	4.3	5.4	6.7	7.0	4.4	1.3	2.1	2.7	4.4	5.1	0.9	7.0	**3.1**
	E	E	E	ESE	E	E	E	ENE	NNE	NNE	NNW	N	NNW	WNW	WNW	W	WNW	NW	NW	NNW	ENE	ENE	ESE	ESE			
May 15	6.2	7.0	6.2	4.8	1.8	1.8	4.4	2.9	4.0	8.9	11.3	10.5	12.9	15.1	11.5	10.7	9.9	6.2	4.3	15.3	14.8	14.0	14.0	13.4	1.8	15.3	8.8
	ESE	ESE	ESE	ESE	SE	SE	ESE	ESE	SE	SSE	S	SSE	S	SSW	SSW	SSW	W	WNW	NW	NNW	N	N	N	N			
May 16	13.2	10.1	9.1	4.9	2.4	5.0	9.8	12.4	14.4	17.2	15.5	14.1	15.8	16.2	13.8	13.5	11.8	10.8	9.8	8.7	5.9	2.8	2.6	1.3	1.3	17.2	10.0
	N	N	N	N	NW	NW	NNW	N	NW	NW	NNW	NNW	NNW	NNW	N	NNW	N	NNW	N	N	NNE	NE	ENE	ENE			
May 17	1.3	**0.3**	1.0	3.2	4.6	2.8	3.6	5.0	2.9	6.4	8.9	8.5	6.4	4.7	7.1	5.6	4.7	3.5	5.5	4.4	5.1	1.6	2.1	1.5	**0.3**	8.9	4.2
	E	S	E	ENE	ENE	NE	ENE	E	E	N	N	NNE	NNE	NNE	NNW	NNE	NNE	NNE	NE	E	E	ESE	ESE	E			
May 18	2.0	2.5	4.9	5.6	3.2	3.6	3.1	3.5	8.9	7.4	9.2	8.8	9.1	4.8	4.4	4.9	2.1	2.8	3.1	2.9	4.2	5.6	7.1	7.1	2.0	9.2	5.0
	ENE	ESE	ESE	ESE	ESE	ESE	ESE	SE	S	S	SSE	SSE	S	S	E	ENE	E	ENE	ENE	ESE	ESE	SE	SE	SE			
May 19	7.6	7.6	5.4	1.3	4.1	4.5	3.4	4.2	8.8	8.2	8.4	9.1	7.6	7.8	5.8	6.7	7.4	9.5	9.1	8.5	6.0	5.7	3.0	2.4	1.3	9.5	6.3
	ESE	ESE	SE	E	SE	SE	SE	SSE	SSW	SSW	SSW	SW	W	WNW	W	NW	NNW	N	NNW	N	NNE	NNE	NNE	NNE			
May 20	1.2	3.7	3.2	2.3	1.7	7.3	8.3	7.5	7.4	5.8	4.1	1.8	5.2	3.9	4.4	5.6	5.8	5.6	4.9	4.1	2.5	2.1	1.7	4.3	1.2	8.3	4.4
	NNE	NE	NE	ENE	ENE	E	E	E	E	E	E	SSE	SE	E	E	E	E	E	E	ESE	E	E	SSE	SE			
May 21	5.1	3.0	2.7	2.9	3.8	4.5	2.8	3.1	3.7	7.3	5.6	6.7	8.0	5.7	1.9	0.6	1.6	2.1	3.6	1.6	3.8	18.6	8.0	3.4	0.6	18.6	4.6
	ENE	E	SSE	E	ENE	ENE	SE	SE	SSE	S	S	SSW	SSW	SW	W	N	ENE	ENE	ESE	ESE	SSE	SW	W	NNW			
May 22	2.9	4.7	4.9	1.9	2.1	3.9	6.4	7.7	9.9	12.3	12.5	12.6	13.6	12.9	11.6	9.3	9.7	10.9	12.5	11.4	11.7	15.2	13.7	13.0	1.9	15.2	9.5
	NW	ENE	ENE	N	NNW	N	NNE	NNE	ENE	ENE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			
May 23	12.3	12.2	11.2	12.2	12.1	11.4	11.0	10.6	10.3	9.5	9.3	10.8	11.4	12.4	10.9	9.6	8.0	9.3	7.6	7.7	7.9	8.3	7.0	6.0	6.0	12.4	10.0
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE			
May 24	3.7	2.3	6.0	7.1	10.1	7.6	7.2	9.0	10.3	10.3	11.0	11.7	10.1	8.6	8.3	5.7	9.4	6.7	5.3	1.3	1.2	1.5	0.5	1.5	0.5	11.7	6.5
	NNE	NNW	NW	WNW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SW	WNW	NW	NNW	N	ENE	SE	E	ENE	ESE			
May 25	1.6	2.2	2.6	1.6	1.9	1.8	1.7	1.7	1.9	5.5	4.9	7.3	9.7	8.1	9.6	1.0	**0.3**	7.4	4.9	1.0	0.6	0.5	1.4	1.4	**0.3**	9.7	3.4
	E	ESE	ESE	E	SE	ESE	E	SSW	W	W	SW	SW	SW	W	NW	NE	N	NW	WSW	SSW	ESE	E	E	ESE			
May 26	1.7	1.5	1.6	1.2	1.4	3.9	2.1	2.3	3.2	1.8	5.3	6.9	11.4	11.1	11.2	9.5	11.1	10.3	10.2	7.0	0.7	1.8	5.5	7.0	0.7	11.4	5.4
	ENE	ENE	NE	NE	ENE	ENE	ENE	SE	SSW	SSE	S	SSW	SW	WSW	SW	SW	SW	SW	SW	SW	SE	ESE	ESE	ESE			
May 27	8.2	9.1	8.3	12.3	13.5	13.0	10.4	9.6	10.6	9.1	10.5	13.3	13.1	15.1	16.2	15.9	15.3	12.9	11.5	8.4	6.9	7.7	8.4	9.4	6.9	16.2	11.2
	ESE	SE	SE	SE	SSE	SSE	SSE	SSW	SW	SW	SSW	SSW	SSW	SW	SSW	SW	SW	WSW	SSW	SSW	S	SSW	SW	SSW			
May 28	9.2	6.6	7.1	8.7	4.8	8.5	11.8	14.5	16.8	16.0	19.9	23.9	24.3	21.9	21.5	18.8	12.4	9.0	7.3	10.5	13.3	8.5	8.9	8.4	4.8	24.3	**13.0**
	SSW	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	SW	WSW	WSW	WSW	W	W	W	WNW	W	WSW	WSW	SW	SW	SSW			
May 29	8.4	5.1	2.3	4.6	6.4	8.5	9.8	13.7	17.7	22.1	21.6	19.5	17.2	18.7	20.7	20.6	19.3	19.4	18.7	14.9	6.8	3.6	1.6	2.0	1.6	22.1	12.6
	SW	SSW	SSE	SSE	S	SW	WSW	WSW	W	W	W	WSW	W	WSW	W	W	WSW	W	W	W	W	WSW	SW	ESE			
May 30	2.2	2.8	3.2	3.3	3.3	2.1	3.5	3.9	3.9	9.1	13.2	11.0	7.2	5.1	2.1	3.4	3.2	6.7	6.4	3.8	1.3	**0.3**	0.7	0.8	**0.3**	13.2	4.3
	ESE	SE	SE	SE	SE	SE	SE	SSE	SSW	S	S	SE	E	SSE	S	SSW	WSW	WSW	WSW	WNW	W	SE	ESE	ESE			
May 31	1.4	1.7	2.1	0.5	4.1	6.3	2.2	3.3	1.8	1.9	6.3	9.2	9.2	8.5	7.5	8.9	8.1	6.8	9.0	9.9	5.1	0.9	4.5	5.3	0.5	9.9	5.2
	E	ESE	SE	SSW	WSW	SW	E	NNW	NW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSE	SW	SW			

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 - May 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

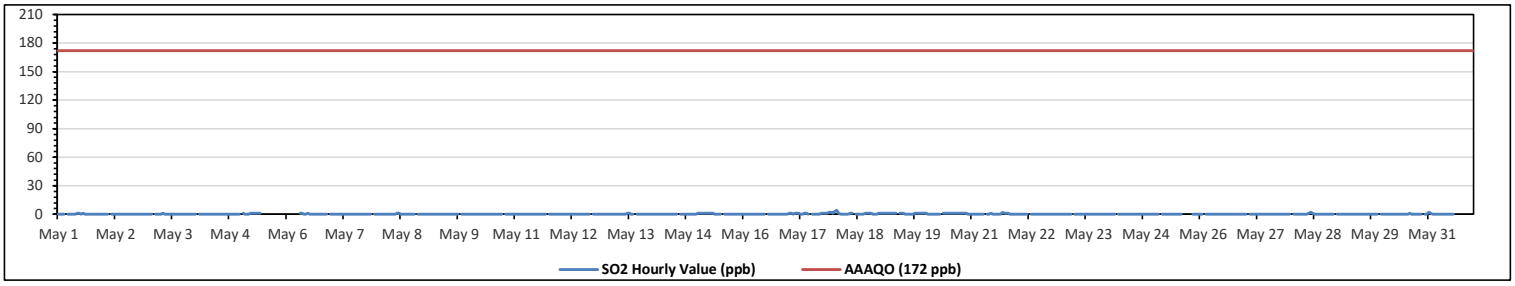
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

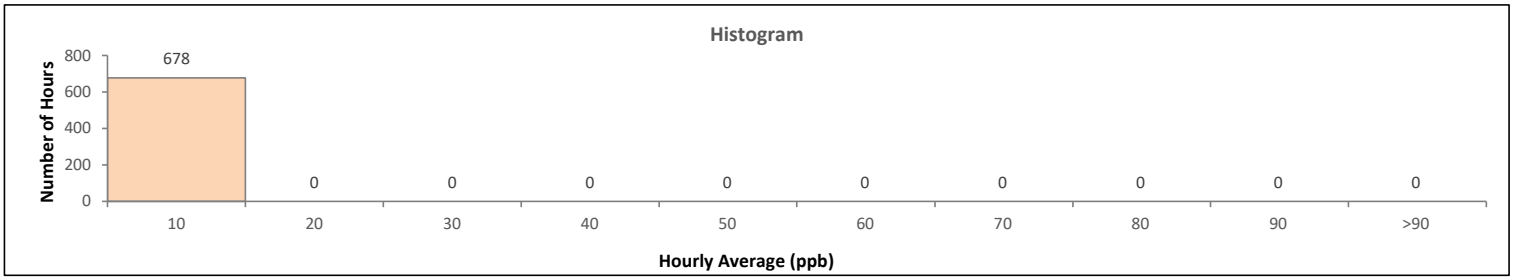
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	4	ppb	on May 18 at hr 1	Hours in Service:	744	
Maximum Daily Value:	0.8	ppb	on May 19	Hours of Data:	678	
Minimum Hourly Value:	0	ppb	on May 1 at hr 0	Hours of Missing Data:	30	
Minimum Daily Value:	0.0	ppb	on May 2	Hours of Calibration:	36	
Monthly Average:	0.2	ppb		Operational Uptime:	96.0	

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			
May 1	0	0	0	0	S	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.1
May 2	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 3	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
May 4	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 5	S	1	0	0	0	1	1	1	1	1	1	N	N	N	N	N	N	N	N	N	N	N	N	N	0	1	NA
May 6	N	N	N	N	N	N	N	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	S	0	0	1	NA
May 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0.0
May 8	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.1
May 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
May 10	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
May 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.0
May 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
May 13	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	S	0	0	0	0	0	0	0	0	0	1	0.1
May 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
May 15	1	1	1	1	1	1	1	1	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.4
May 16	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 17	1	1	0	1	1	1	0	0	1	1	0	S	0	0	0	0	0	1	1	1	1	2	2	1	0	2	0.7
May 18	3	4	1	0	0	0	0	0	1	1	S	0	0	0	0	0	1	1	1	1	0	0	0	1	0	4	0.7
May 19	1	1	1	1	1	1	1	1	1	S	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	1	0.8
May 20	1	0	0	0	0	0	0	0	S	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0.6
May 21	0	0	0	0	0	0	0	S	0	0	1	0	0	0	0	0	2	1	1	1	0	0	0	0	0	2	0.3
May 22	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 23	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 24	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 25	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0.0
May 26	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
May 27	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 28	S	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	S	0	2	0.2
May 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
May 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	S	0	0	0	1	0.0
May 31	2	1	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	N	N	N	N	N	N	0	2	NA
Diurnal Maximum	3	4	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	2	2	1			
Diurnal Average	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	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.



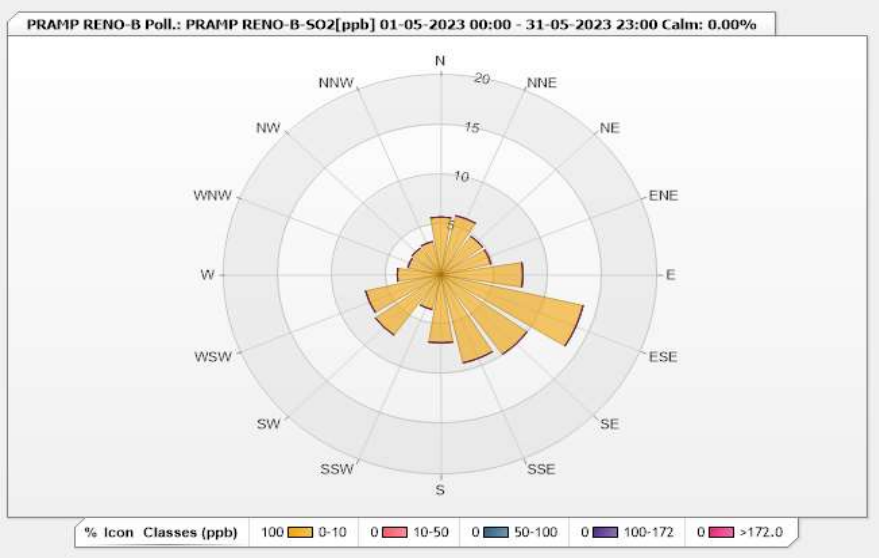


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-SO2[ppb] Monthly: 05-2023

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

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

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	5.79	0	0	0	0	5.79
NNE	6.08	0	0	0	0	6.08
NE	4.75	0	0	0	0	4.75
ENE	4.75	0	0	0	0	4.75
E	7.57	0	0	0	0	7.57
ESE	13.5	0	0	0	0	13.5
SE	9.79	0	0	0	0	9.79
SSE	9.05	0	0	0	0	9.05
S	6.82	0	0	0	0	6.82
SSW	3.56	0	0	0	0	3.56
SW	7.42	0	0	0	0	7.42
WSW	7.12	0	0	0	0	7.12
W	4.01	0	0	0	0	4.01
WNW	3.12	0	0	0	0	3.12
NW	3.26	0	0	0	0	3.26
NNW	3.41	0	0	0	0	3.41
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

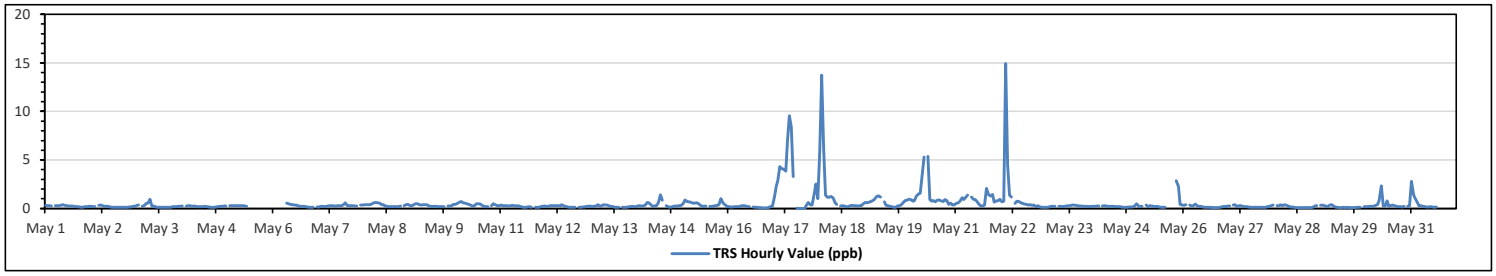
TOTAL REDUCED SULPHUR (TRS) in ppb

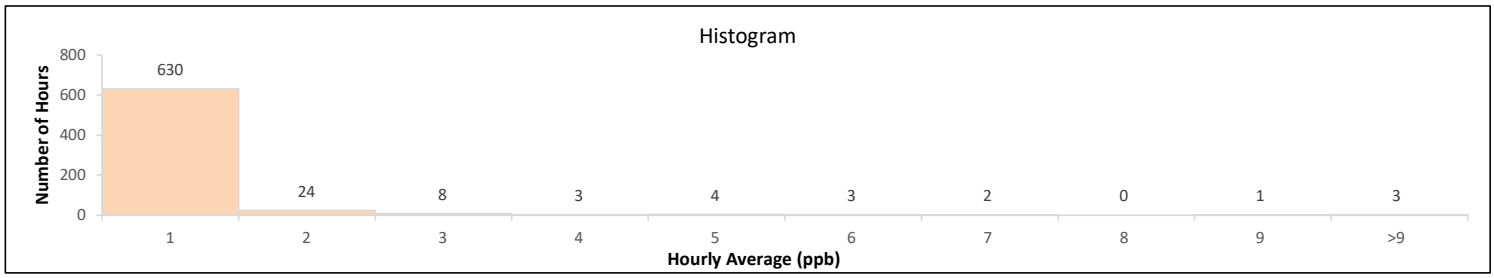
Maximum Hourly Value:	14.94	ppb	on May 22 at hr 2	Hours in Service:	744
Maximum Daily Value:	2.49	ppb	on May 17	Hours of Data:	678
Minimum Hourly Value:	0.00	ppb	on May 17 at hr 13	Hours of Missing Data:	30
Minimum Daily Value:	0.16	ppb	on May 16	Hours of Calibration:	36
Monthly Average:	0.50	ppb		Operational Uptime:	96.0

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			
May 1	0.32	0.31	0.3	0.25	S	0.27	0.28	0.3	0.33	0.39	0.32	0.28	0.26	0.25	0.25	0.21	0.18	0.17	0.15	0.14	0.15	0.17	0.17	0.21	0.14	0.39	0.25
May 2	0.21	0.17	0.19	S	0.32	0.34	0.28	0.23	0.2	0.2	0.16	0.14	0.13	0.12	0.13	0.11	0.11	0.11	0.12	0.13	0.16	0.15	0.22	0.23	0.11	0.34	0.18
May 3	0.32	0.34	S	0.22	0.32	0.52	0.56	0.94	0.21	0.24	0.16	0.13	0.13	0.12	0.13	0.12	0.12	0.12	0.12	0.17	0.17	0.19	0.2	0.23	0.12	0.94	0.25
May 4	0.26	S	0.22	0.28	0.28	0.23	0.24	0.2	0.19	0.17	0.18	0.19	0.2	0.17	0.15	0.14	0.14	0.14	0.15	0.17	0.23	0.2	0.24	0.24	0.14	0.28	0.20
May 5	S	0.31	0.29	0.28	0.27	0.29	0.3	0.3	0.28	0.26	0.22	N	N	N	N	N	N	N	N	N	N	N	N	N	0.22	0.31	NA
May 6	N	N	N	N	N	N	N	0.57	0.48	0.43	0.36	0.35	0.34	0.28	0.22	0.22	0.2	0.18	0.16	0.14	0.14	0.13	S	0.15	0.13	0.57	NA
May 7	0.16	0.2	0.2	0.19	0.22	0.24	0.27	0.27	0.25	0.24	0.3	0.3	0.27	0.37	0.58	0.27	0.27	0.27	0.28	0.26	0.26	S	0.34	0.35	0.16	0.58	0.28
May 8	0.36	0.39	0.36	0.39	0.49	0.59	0.61	0.58	0.53	0.39	0.36	0.24	0.21	0.18	0.19	0.17	0.17	0.17	0.19	0.24	S	0.3	0.36	0.41	0.17	0.61	0.34
May 9	0.29	0.29	0.37	0.48	0.46	0.37	0.35	0.36	0.39	0.36	0.26	0.23	0.23	0.2	0.2	0.19	0.18	0.17	0.18	S	0.25	0.26	0.31	0.41	0.17	0.48	0.30
May 10	0.42	0.52	0.64	0.72	0.58	0.54	0.5	0.41	0.34	0.23	0.31	0.46	0.5	0.44	0.33	0.22	0.19	0.18	S	0.27	0.47	0.37	0.29	0.27	0.18	0.72	0.40
May 11	0.35	0.29	0.3	0.3	0.26	0.29	0.32	0.3	0.24	0.29	0.21	0.16	0.14	0.14	0.16	0.17	0.14	S	0.14	0.14	0.14	0.17	0.2	0.24	0.14	0.35	0.22
May 12	0.23	0.21	0.27	0.27	0.28	0.31	0.27	0.25	0.36	0.29	0.21	0.16	0.13	0.13	0.12	0.12	S	0.13	0.13	0.15	0.16	0.21	0.21	0.26	0.12	0.36	0.21
May 13	0.19	0.21	0.24	0.36	0.25	0.24	0.4	0.35	0.35	0.25	0.22	0.18	0.13	0.12	0.12	S	0.13	0.11	0.11	0.15	0.18	0.22	0.19	0.18	0.11	0.40	0.21
May 14	0.26	0.3	0.26	0.25	0.35	0.62	0.58	0.39	0.22	0.25	0.28	0.62	1.41	0.85	S	0.3	0.19	0.14	0.15	0.2	0.25	0.24	0.27	0.32	0.14	1.41	0.38
May 15	0.46	0.88	0.72	0.69	0.66	0.53	0.56	0.58	0.51	0.34	0.2	0.23	0.24	S	0.22	0.17	0.26	0.28	0.33	0.4	0.99	0.55	0.36	0.21	0.17	0.99	0.45
May 16	0.17	0.16	0.15	0.17	0.18	0.17	0.21	0.3	0.27	0.24	0.19	0.18	S	0.15	0.12	0.11	0.09	0.08	0.07	0.05	0.05	0.08	0.17	0.21	0.05	0.30	0.16
May 17	1.09	2.28	2.87	4.32	4.13	4.04	3.84	6.91	9.57	8.41	3.28	S	0.03	0	0	0	0	0.32	0.6	0.39	0.35	1.39	2.52	1	0.00	9.57	**2.49**
May 18	5.91	13.76	6.29	1.37	1.16	1.13	1.23	1.08	0.59	0.41	S	0.26	0.28	0.25	0.19	0.19	0.31	0.33	0.31	0.28	0.26	0.27	0.28	0.49	0.19	13.76	1.59
May 19	0.6	0.59	0.64	0.71	0.82	0.98	1.21	1.31	1.16	S	0.69	0.33	0.28	0.21	0.17	0.14	0.1	0.24	0.31	0.38	0.6	0.84	0.86	0.95	0.10	1.31	0.61
May 20	0.9	0.74	0.82	1.26	1.48	1.57	3.42	5.3	S	5.37	0.93	0.75	0.83	0.69	0.85	0.88	0.77	0.7	0.91	0.82	0.42	0.55	0.34	0.36	0.34	5.37	1.33
May 21	0.51	0.58	0.79	1.09	0.93	1.15	1.35	S	1.17	0.96	0.93	0.69	0.41	0.26	0.24	0.34	2.05	1.45	1.27	1.45	0.65	0.77	0.79	0.94	0.24	2.05	0.90
May 22	0.68	0.75	**14.94**	4.53	1.36	1.19	S	0.52	0.73	0.71	0.58	0.52	0.45	0.41	0.34	0.4	0.33	0.34	0.19	0.29	0.16	0.1	0.11	0.1	0.10	**14.94**	1.29
May 23	0.13	0.15	0.2	0.22	0.21	S	0.23	0.2	0.19	0.2	0.24	0.27	0.3	0.34	0.34	0.32	0.27	0.25	0.25	0.23	0.22	0.2	0.19	0.21	0.13	0.34	0.23
May 24	0.23	0.23	0.26	0.25	S	0.24	0.27	0.25	0.23	0.23	0.22	0.21	0.19	0.18	0.18	0.15	0.13	0.13	0.13	0.15	0.15	0.15	0.26	0.5	0.13	0.50	0.21
May 25	0.25	0.19	0.22	S	0.34	0.19	0.27	0.24	0.23	0.19	0.22	0.15	0.13	0.13	0.11	C	C	C	C	C	2.86	2.25	0.42	0.34	0.11	2.86	0.49
May 26	0.32	0.39	S	0.34	0.26	0.3	0.44	0.26	0.23	0.22	0.16	0.13	0.11	0.1	0.1	0.08	0.09	0.09	0.09	0.11	0.15	0.22	0.19	0.24	0.08	0.44	0.20
May 27	0.26	S	0.35	0.36	0.19	0.3	0.28	0.21	0.17	0.17	0.15	0.13	0.13	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.17	0.22	0.29	0.34	0.11	0.36	0.20
May 28	S	0.29	0.3	0.4	0.31	0.37	0.32	0.24	0.16	0.15	0.13	0.09	0.09	0.08	0.09	0.09	0.09	0.08	0.09	0.09	0.12	0.25	0.28	S	0.08	0.40	0.19
May 29	0.32	0.35	0.29	0.23	0.23	0.34	0.37	0.22	0.11	0.1	0.08	0.09	0.1	0.09	0.1	0.09	0.09	0.09	0.09	0.1	0.12	0.13	S	0.18	0.08	0.37	0.17
May 30	0.17	0.19	0.2	0.23	0.23	0.32	0.37	0.81	2.33	0.24	0.26	0.77	0.2	0.31	0.34	0.27	0.23	0.18	0.17	0.16	0.21	S	0.2	0.24	0.16	2.33	0.38
May 31	2.78	1.38	0.95	0.63	0.24	0.29	0.22	0.17	0.16	0.16	0.17	0.16	0.14	0.15	N	N	N	N	N	N	N	N	N	N	0.14	2.78	NA
Diurnal Maximum	5.91	13.76	14.94	4.53	4.13	4.04	3.84	6.91	9.57	8.41	3.28	0.77	1.41	0.85	0.85	0.88	2.05	1.45	1.27	1.45	2.86	2.25	2.52	1.00			
Diurnal Average	0.65	0.94	1.20	0.74	0.60	0.62	0.67	0.80	0.74	0.74	0.40	0.29	0.28	0.24	0.22	0.21	0.26	0.24	0.25	0.27	0.36	0.39	0.38	0.35			

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

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



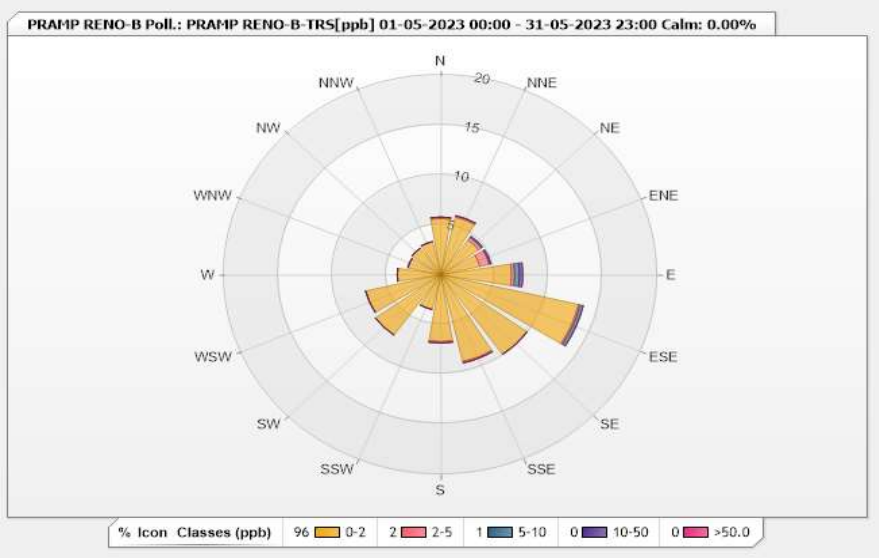


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-TRS[ppb] Monthly: 05-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	5.64	0.15	0	0	0	5.79
NNE	5.93	0.15	0	0	0	6.08
NE	4.3	0.3	0.15	0	0	4.75
ENE	3.71	0.89	0.15	0	0	4.75
E	6.53	0.3	0.45	0.3	0	7.58
ESE	13.06	0.15	0.3	0	0	13.51
SE	9.79	0	0	0	0	9.79
SSE	8.9	0.15	0	0	0	9.05
S	6.68	0.15	0	0	0	6.83
SSW	3.56	0	0	0	0	3.56
SW	7.42	0	0	0	0	7.42
WSW	7.12	0	0	0	0	7.12
W	4.01	0	0	0	0	4.01
WNW	3.12	0	0	0	0	3.12
NW	3.26	0	0	0	0	3.26
NNW	3.41	0	0	0	0	3.41
Summary	96.44	2.24	1.05	0.3	0	100



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

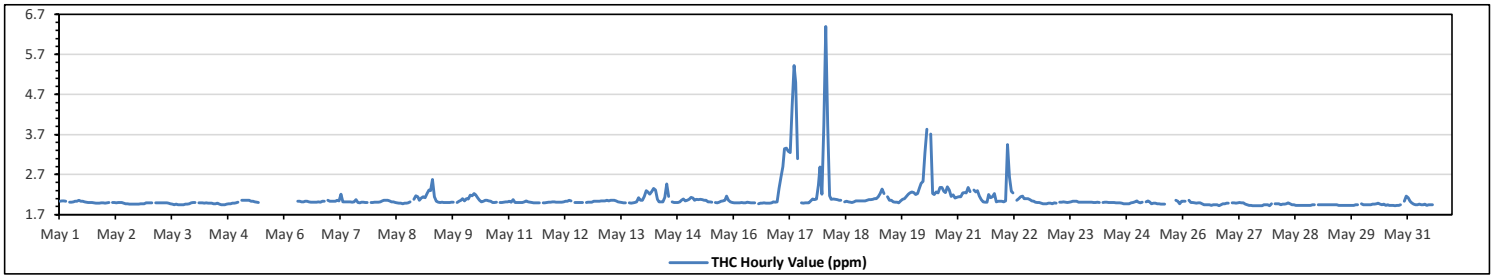
TOTAL HYDROCARBONS (THC) in ppm

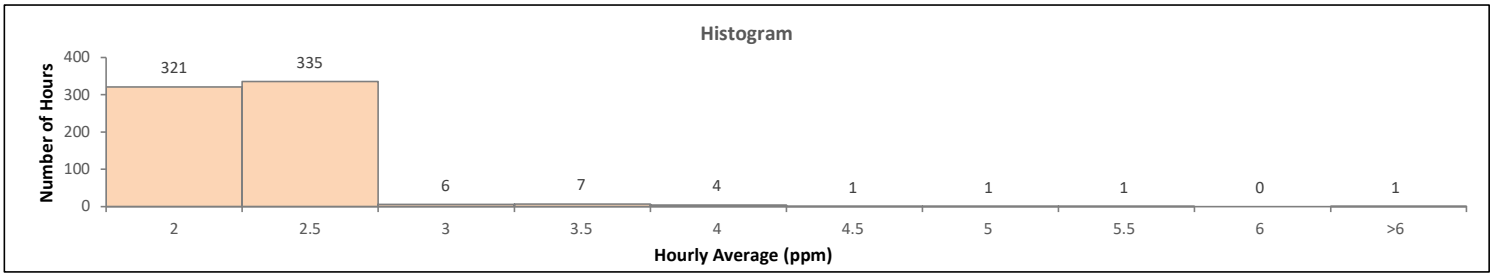
Maximum Hourly Value:	6.40	ppm	on May 18 at hr 1	Hours in Service:	744
Maximum Daily Value:	2.82	ppm	on May 17	Hours of Data:	677
Minimum Hourly Value:	1.92	ppm	on May 26 at hr 19	Hours of Missing Data:	31
Minimum Daily Value:	1.94	ppm	on May 29	Hours of Calibration:	36
Monthly Average:	2.08	ppm		Operational Uptime:	95.8

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	2.03	2.04	2.04	2.03	S	2.01	2.01	2.02	2.03	2.03	2.05	2.03	2.03	2.02	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.99	1.99	1.98	2.05	2.01
May 2	1.98	1.99	2.00	S	2.00	2.00	1.99	2.00	2.00	2.00	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.99	1.99	1.96	2.00	1.98
May 3	1.99	1.99	S	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.96	1.95	1.96	1.95	1.95	1.94	1.95	1.96	1.96	1.97	1.99	2.00	1.94	2.00	1.97
May 4	2.00	S	1.99	1.99	1.99	1.98	1.99	1.98	1.98	1.98	1.97	1.97	1.98	1.96	1.95	1.95	1.95	1.96	1.97	1.97	1.98	1.98	1.99	2.01	1.95	2.01	1.98
May 5	S	2.05	2.06	2.06	2.05	2.06	2.03	2.03	2.02	2.01	2.00	N	N	N	N	N	N	N	N	N	N	N	N	N	2.00	2.06	NA
May 6	N	N	N	N	N	N	N	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.03	2.03	S	2.05	2.01	2.05	NA
May 7	2.03	2.03	2.03	2.03	2.05	2.04	2.21	2.02	2.02	2.02	2.02	2.02	2.01	2.02	2.07	2.00	1.99	2.01	2.01	2.00	2.00	S	2.00	2.00	1.99	2.21	2.03
May 8	2.01	2.01	2.01	2.02	2.04	2.06	2.06	2.06	2.04	2.02	2.02	2.00	1.99	1.98	1.98	1.97	1.98	1.98	1.99	2.02	S	2.08	2.17	2.14	1.97	2.17	2.03
May 9	2.06	2.11	2.14	2.12	2.22	2.31	2.30	2.58	2.14	2.03	2.01	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.01	S	2.00	2.03	2.05	2.10	2.00	2.58	2.10
May 10	2.04	2.10	2.09	2.18	2.17	2.22	2.19	2.12	2.06	2.02	2.03	2.05	2.05	2.04	2.03	2.00	2.00	2.01	S	2.00	2.00	2.01	2.02	2.02	2.00	2.22	2.06
May 11	2.03	2.01	2.07	2.00	2.00	2.00	2.00	2.00	2.02	2.04	2.02	2.01	2.00	1.99	1.99	1.99	1.99	S	1.99	1.99	2.00	2.01	2.01	2.02	1.99	2.07	2.01
May 12	2.02	2.01	2.01	2.01	2.01	2.02	2.03	2.03	2.05	2.04	K	2.00	2.00	2.00	2.00	2.00	S	2.00	2.01	2.01	2.01	2.03	2.03	2.03	2.00	2.05	2.02
May 13	2.03	2.04	2.04	2.04	2.05	2.04	2.05	2.06	2.06	2.04	2.02	2.01	2.00	1.99	1.99	S	1.99	1.98	1.99	2.00	2.02	2.12	2.05	2.05	1.98	2.12	2.03
May 14	2.15	2.30	2.26	2.21	2.27	2.35	2.31	2.08	2.02	2.02	2.02	2.13	2.46	2.15	S	2.02	2.00	2.00	2.00	2.02	2.06	2.09	2.04	2.05	2.00	2.46	2.13
May 15	2.08	2.13	2.11	2.05	2.08	2.07	2.08	2.07	2.06	2.05	2.02	2.02	2.01	S	2.00	1.99	2.01	2.03	2.04	2.05	2.16	2.06	2.02	2.00	1.99	2.16	2.05
May 16	1.99	1.99	1.99	1.99	2.00	1.99	1.99	2.01	2.00	1.99	1.99	1.99	S	1.97	1.98	1.98	1.99	1.98	1.98	1.98	1.99	2.02	2.01	2.02	1.97	2.02	1.99
May 17	2.35	2.63	2.90	3.34	3.36	3.28	3.25	4.41	5.42	5.00	3.10	S	1.99	1.98	1.99	1.99	1.99	2.04	2.09	2.07	2.09	2.43	2.89	2.21	1.98	5.42	**2.82**
May 18	3.94	**6.40**	3.95	2.17	2.08	2.09	2.08	2.07	2.05	2.05	S	2.02	2.03	2.02	2.01	2.00	2.02	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.00	**6.40**	2.40
May 19	2.07	2.07	2.08	2.10	2.10	2.14	2.23	2.33	2.22	S	2.14	2.06	2.05	2.02	2.01	2.01	1.99	2.04	2.08	2.10	2.15	2.21	2.24	2.26	1.99	2.33	2.12
May 20	2.25	2.20	2.22	2.37	2.48	2.53	3.25	3.83	S	3.71	2.23	2.20	2.26	2.24	2.38	2.38	2.28	2.25	2.39	2.31	2.15	2.19	2.11	2.13	2.11	3.83	2.45
May 21	2.14	2.14	2.24	2.25	2.24	2.38	2.27	S	2.31	2.26	2.29	2.16	2.07	2.02	2.01	2.01	2.20	2.12	2.14	2.22	2.02	2.03	2.03	2.03	2.01	2.38	2.16
May 22	2.02	2.04	3.45	2.64	2.28	2.24	S	2.05	2.10	2.14	2.16	2.10	2.10	2.10	2.07	2.04	2.03	2.01	2.00	2.00	1.98	1.97	1.97	1.97	1.97	3.45	2.15
May 23	1.98	1.98	1.97	1.99	1.98	S	2.01	2.01	2.02	2.01	2.00	2.01	2.02	2.03	2.03	2.03	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.97	2.03	2.01
May 24	2.00	2.00	2.01	2.00	S	2.00	2.01	2.01	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.98	1.97	1.97	1.97	1.97	1.99	2.00	2.02	2.04	1.97	2.04	2.00
May 25	2.01	1.99	2.01	S	2.02	2.04	2.02	1.97	1.98	1.98	1.97	1.97	1.96	1.96	1.96	C	C	C	C	C	2.06	2.03	1.97	2.03	1.96	2.06	2.00
May 26	2.03	2.03	S	2.05	2.00	2.00	1.99	1.98	1.99	1.99	1.97	1.95	1.95	1.95	1.94	1.93	1.94	1.94	1.94	1.92	1.95	1.97	1.97	1.98	1.92	2.05	1.97
May 27	1.98	S	1.99	1.99	1.98	1.99	2.00	1.99	1.99	1.96	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.94	1.94	1.95	1.92	1.97	1.92	2.00	1.95
May 28	S	1.97	1.97	1.97	1.95	1.96	1.96	1.97	1.99	1.97	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.95	1.95	S	1.93	1.99	1.95
May 29	1.95	1.95	1.95	1.94	1.94	1.95	1.94	1.94	1.95	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.95	S	1.97	1.93	1.97	1.94
May 30	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.97	1.98	1.96	1.95	1.96	1.93	1.94	1.93	1.93	1.93	1.92	1.93	1.93	1.94	S	2.03	2.16	1.92	2.16	1.96
May 31	2.12	2.03	1.99	1.96	1.95	1.94	1.96	1.95	1.94	1.96	1.93	1.94	1.94	1.94	N	N	N	N	N	N	N	N	N	N	1.93	2.12	NA
Diurnal Maximum	3.94	6.40	3.95	3.34	3.36	3.28	3.25	4.41	5.42	5.00	3.10	2.20	2.46	2.24	2.38	2.38	2.28	2.25	2.39	2.31	2.16	2.43	2.89	2.26			
Diurnal Average	2.12	2.22	2.20	2.12	2.12	2.13	2.14	2.19	2.15	2.17	2.06	2.01	2.02	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.04	2.06	2.05			

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

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



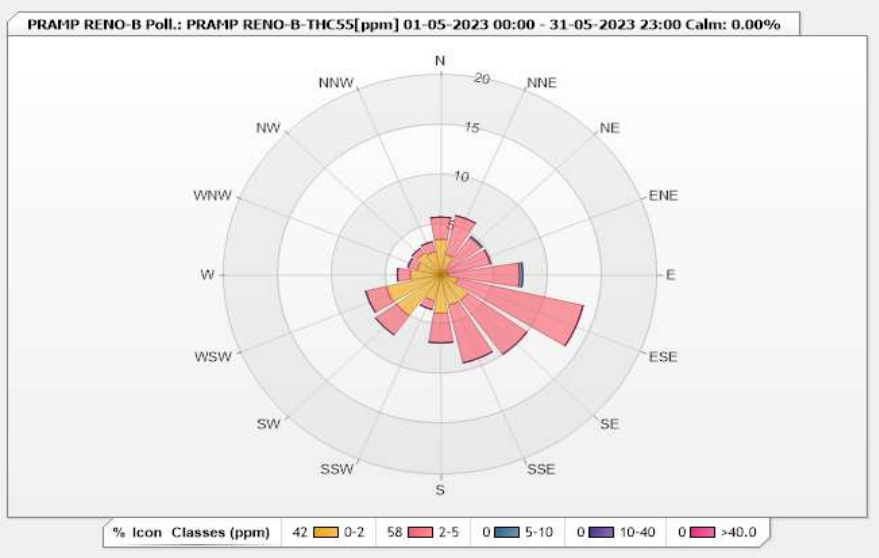


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-THC55[ppm] Monthly: 05-2023

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

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

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	3.56	2.23	0	0	0	5.79
NNE	2.08	4.01	0	0	0	6.09
NE	0.45	4.15	0.15	0	0	4.75
ENE	0.59	4.15	0	0	0	4.74
E	0.59	6.68	0.3	0	0	7.57
ESE	1.63	11.87	0	0	0	13.5
SE	3.12	6.68	0	0	0	9.8
SSE	3.12	5.93	0	0	0	9.05
S	3.86	2.97	0	0	0	6.83
SSW	2.67	0.89	0	0	0	3.56
SW	5.04	2.37	0	0	0	7.41
WSW	5.19	1.93	0	0	0	7.12
W	2.82	1.19	0	0	0	4.01
WNW	2.23	0.89	0	0	0	3.12
NW	2.67	0.59	0	0	0	3.26
NNW	2.37	1.04	0	0	0	3.41
Summary	41.99	57.57	0.45	0	0	100



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

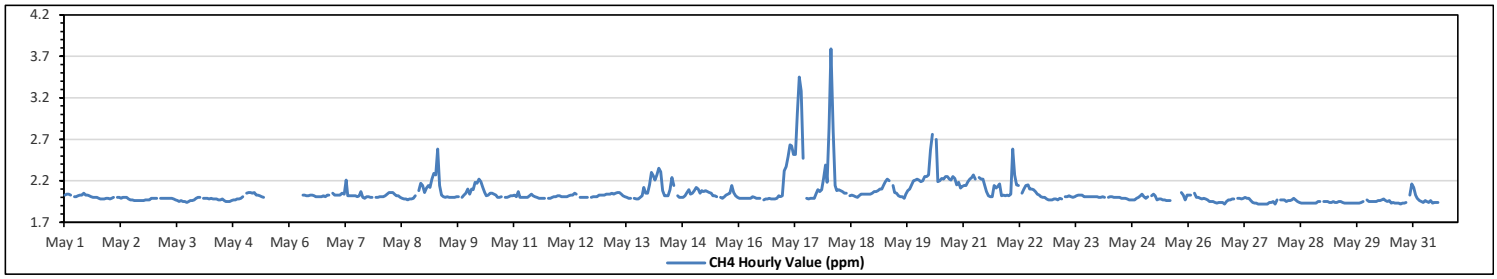
METHANE (CH4) in ppm

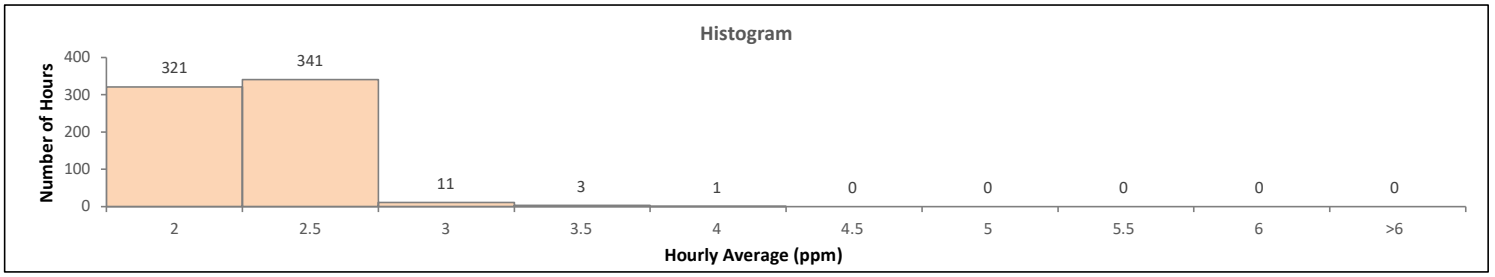
Maximum Hourly Value:	3.79	ppm	on May 18 at hr 1	Hours in Service:	744
Maximum Daily Value:	2.38	ppm	on May 17	Hours of Data:	677
Minimum Hourly Value:	1.92	ppm	on May 26 at hr 19	Hours of Missing Data:	31
Minimum Daily Value:	1.94	ppm	on May 29	Hours of Calibration:	36
Monthly Average:	2.04	ppm		Operational Uptime:	95.8

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	2.03	2.04	2.04	2.03	S	2.01	2.01	2.02	2.03	2.03	2.05	2.03	2.03	2.02	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.99	1.99	1.98	2.05	2.01
May 2	1.98	1.99	2.00	S	2.00	2.00	1.99	2.00	2.00	2.00	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.99	1.99	1.96	2.00	1.98
May 3	1.99	1.99	S	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.96	1.95	1.96	1.95	1.95	1.94	1.95	1.96	1.96	1.97	1.99	2.00	1.94	2.00	1.97
May 4	2.00	S	1.99	1.99	1.99	1.98	1.99	1.98	1.98	1.98	1.97	1.97	1.98	1.96	1.95	1.95	1.95	1.96	1.97	1.97	1.98	1.98	1.99	2.01	1.95	2.01	1.98
May 5	S	2.05	2.06	2.06	2.05	2.06	2.03	2.03	2.02	2.01	2.00	N	N	N	N	N	N	N	N	N	N	N	N	N	2.00	2.06	NA
May 6	N	N	N	N	N	N	N	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.03	2.03	S	2.05	2.01	2.05	NA
May 7	2.03	2.03	2.03	2.03	2.05	2.04	2.21	2.02	2.02	2.02	2.02	2.02	2.01	2.02	2.07	2.00	1.99	2.01	2.01	2.00	2.00	S	2.00	2.00	1.99	2.21	2.03
May 8	2.01	2.01	2.01	2.02	2.04	2.06	2.06	2.06	2.04	2.02	2.02	2.00	1.99	1.98	1.98	1.97	1.98	1.98	1.99	2.02	S	2.08	2.17	2.14	1.97	2.17	2.03
May 9	2.06	2.11	2.14	2.12	2.22	2.29	2.27	2.58	2.14	2.03	2.01	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.01	S	2.00	2.03	2.05	2.10	2.00	2.58	2.09
May 10	2.04	2.10	2.09	2.18	2.17	2.22	2.19	2.12	2.06	2.02	2.03	2.05	2.05	2.04	2.03	2.00	2.00	2.01	S	2.00	2.00	2.01	2.02	2.02	2.00	2.22	2.06
May 11	2.03	2.01	2.07	2.00	2.00	2.00	2.00	2.00	2.02	2.04	2.02	2.01	2.00	1.99	1.99	1.99	1.99	S	1.99	1.99	2.00	2.01	2.01	2.02	1.99	2.07	2.01
May 12	2.02	2.01	2.01	2.01	2.01	2.02	2.03	2.03	2.05	2.04	K	2.00	2.00	2.00	2.00	2.00	S	2.00	2.01	2.01	2.01	2.03	2.03	2.03	2.00	2.05	2.02
May 13	2.03	2.04	2.04	2.04	2.05	2.04	2.05	2.06	2.06	2.04	2.02	2.01	2.00	1.99	1.99	S	1.99	1.98	1.98	2.00	2.02	2.12	2.05	2.05	1.98	2.12	2.03
May 14	2.15	2.30	2.26	2.21	2.27	2.35	2.31	2.08	2.02	2.02	2.02	2.09	2.24	2.14	S	2.02	2.00	2.00	2.00	2.02	2.06	2.09	2.04	2.05	2.00	2.35	2.12
May 15	2.08	2.12	2.10	2.05	2.08	2.07	2.08	2.07	2.06	2.05	2.02	2.02	2.01	S	2.00	1.99	2.01	2.03	2.04	2.05	2.14	2.06	2.02	2.00	1.99	2.14	2.05
May 16	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.01	2.00	1.99	1.99	1.99	S	1.97	1.98	1.98	1.99	1.98	1.98	1.98	1.99	2.02	2.01	2.02	1.97	2.02	1.99
May 17	2.32	2.37	2.49	2.63	2.62	2.52	2.52	3.02	3.45	3.28	2.47	S	1.99	1.98	1.99	1.99	1.99	2.04	2.09	2.07	2.09	2.23	2.39	2.18	1.98	3.45	**2.38**
May 18	2.83	**3.79**	2.79	2.14	2.08	2.09	2.08	2.07	2.05	2.05	S	2.02	2.03	2.02	2.01	2.00	2.02	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.00	**3.79**	2.19
May 19	2.07	2.07	2.08	2.10	2.10	2.14	2.19	2.22	2.20	S	2.14	2.06	2.05	2.02	2.01	2.01	1.99	2.04	2.08	2.10	2.15	2.20	2.21	2.22	1.99	2.22	2.11
May 20	2.21	2.19	2.20	2.25	2.25	2.27	2.57	2.76	S	2.70	2.19	2.20	2.23	2.22	2.25	2.25	2.22	2.21	2.25	2.23	2.15	2.18	2.11	2.13	2.11	2.76	2.27
May 21	2.14	2.14	2.19	2.22	2.24	2.27	2.22	S	2.24	2.22	2.22	2.15	2.07	2.02	2.01	2.01	2.14	2.11	2.13	2.16	2.02	2.03	2.02	2.03	2.01	2.27	2.13
May 22	2.02	2.04	2.58	2.27	2.15	2.14	S	2.05	2.10	2.14	2.15	2.10	2.10	2.09	2.07	2.04	2.03	2.01	2.00	2.00	1.98	1.97	1.97	1.97	1.97	2.58	2.09
May 23	1.98	1.98	1.97	1.99	1.98	S	2.01	2.01	2.02	2.01	2.00	2.01	2.02	2.03	2.03	2.03	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.97	2.03	2.01
May 24	2.00	2.00	2.01	2.00	S	2.00	2.01	2.01	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.98	1.97	1.97	1.97	1.97	1.99	2.00	2.02	2.04	1.97	2.04	2.00
May 25	2.01	1.99	2.01	S	2.02	2.04	2.02	1.97	1.98	1.98	1.97	1.97	1.96	1.96	1.96	C	C	C	C	C	2.06	2.03	1.97	2.03	1.96	2.06	2.00
May 26	2.03	2.03	S	2.05	2.00	2.00	1.99	1.98	1.99	1.98	1.97	1.95	1.95	1.95	1.94	1.93	1.94	1.94	1.94	1.92	1.95	1.97	1.97	1.98	1.92	2.05	1.97
May 27	1.98	S	1.99	1.99	1.98	1.99	2.00	1.99	1.99	1.96	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.94	1.94	1.95	1.92	1.97	1.92	2.00	1.95
May 28	S	1.97	1.97	1.97	1.95	1.96	1.96	1.97	1.99	1.97	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.95	1.95	S	1.93	1.99	1.95
May 29	1.95	1.95	1.95	1.94	1.94	1.95	1.94	1.94	1.95	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.95	S	1.97	1.93	1.97	1.94
May 30	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.97	1.98	1.96	1.95	1.96	1.93	1.94	1.93	1.93	1.93	1.92	1.93	1.93	1.94	S	2.03	2.16	1.92	2.16	1.96
May 31	2.12	2.03	1.99	1.96	1.95	1.94	1.96	1.95	1.94	1.96	1.93	1.94	1.94	1.94	N	N	N	N	N	N	N	N	N	N	1.93	2.12	NA
Diurnal Maximum	2.83	3.79	2.79	2.63	2.62	2.52	2.57	3.02	3.45	3.28	2.47	2.20	2.24	2.22	2.25	2.25	2.22	2.21	2.25	2.23	2.15	2.23	2.39	2.22			
Diurnal Average	2.07	2.12	2.11	2.08	2.08	2.08	2.09	2.10	2.08	2.08	2.03	2.01	2.01	2.00	2.00	1.99	1.99	2.00	2.00	2.01	2.01	2.03	2.04	2.04			

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

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



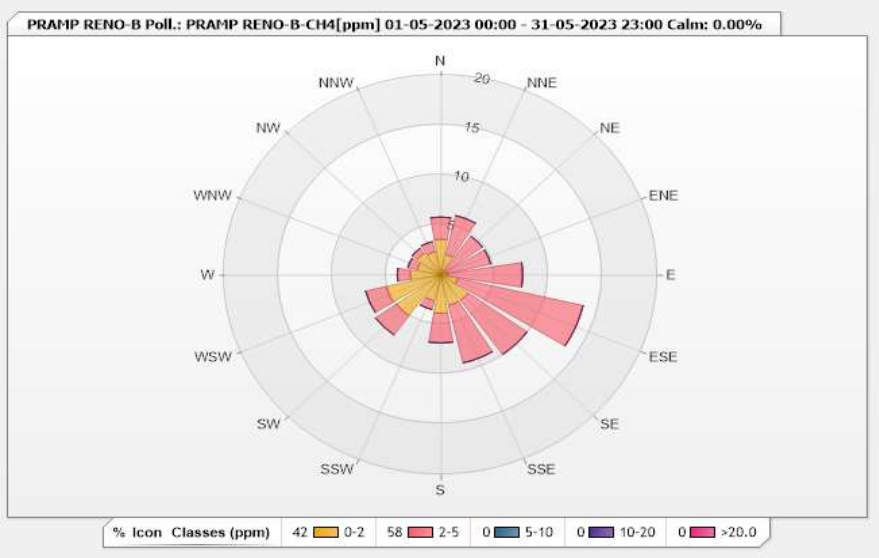


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-CH4[ppm] Monthly: 05-2023

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

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

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	3.56	2.23	0	0	0	5.79
NNE	2.08	4.01	0	0	0	6.09
NE	0.45	4.3	0	0	0	4.75
ENE	0.59	4.15	0	0	0	4.74
E	0.59	6.97	0	0	0	7.56
ESE	1.63	11.87	0	0	0	13.5
SE	3.12	6.68	0	0	0	9.8
SSE	3.12	5.93	0	0	0	9.05
S	3.86	2.97	0	0	0	6.83
SSW	2.67	0.89	0	0	0	3.56
SW	5.04	2.37	0	0	0	7.41
WSW	5.19	1.93	0	0	0	7.12
W	2.82	1.19	0	0	0	4.01
WNW	2.23	0.89	0	0	0	3.12
NW	2.67	0.59	0	0	0	3.26
NNW	2.37	1.04	0	0	0	3.41
Summary	41.99	58.01	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

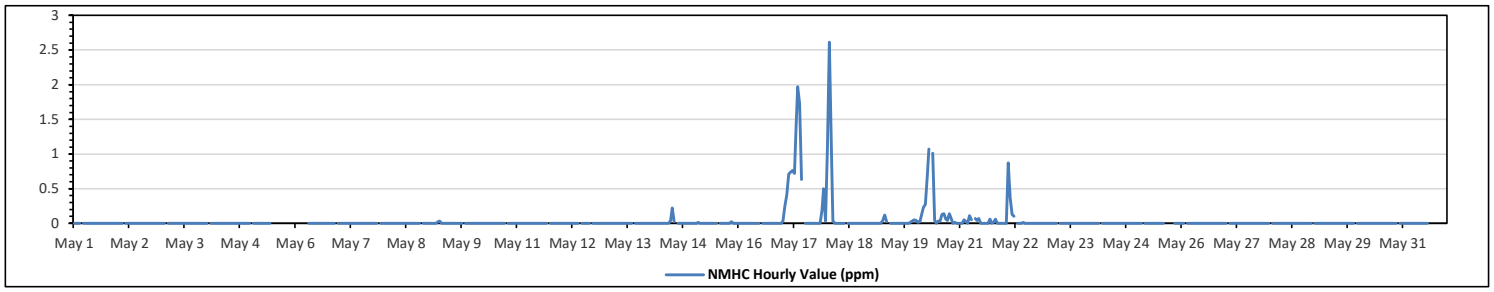
NON-METHANE HYDROCARBONS (NMHC) in ppm

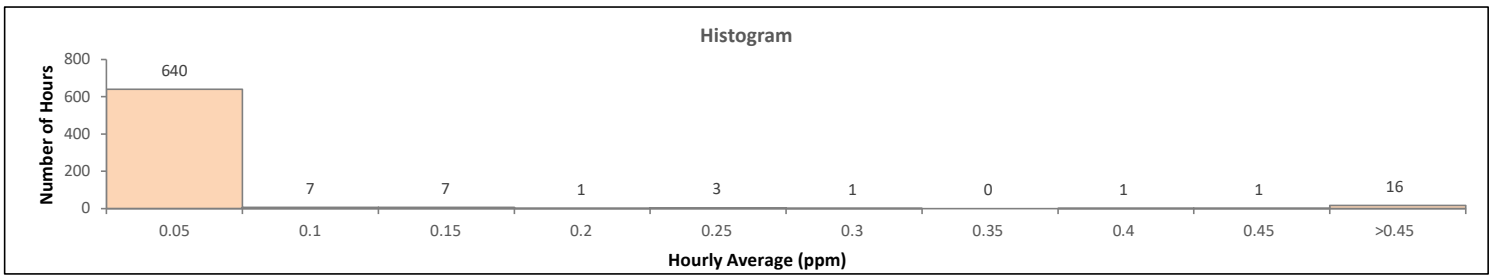
Maximum Hourly Value:	2.61	ppm	on May 18 at hr 1	Hours in Service:	744
Maximum Daily Value:	0.44	ppm	on May 17	Hours of Data:	677
Minimum Hourly Value:	0.00	ppm	on May 1 at hr 0	Hours of Missing Data:	31
Minimum Daily Value:	0.00	ppm	on May 1	Hours of Calibration:	36
Monthly Average:	0.03	ppm		Operational Uptime:	95.8

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 2	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 3	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 4	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 5	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N	N	N	N	N	N	N	N	N	N	N	N	N	0.00	0.00	NA
May 6	N	N	N	N	N	N	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	NA
May 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
May 9	0.00	0.00	0.00	0.00	0.00	0.02	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	S	0.00	0.00	0.00	0.00	0.00	0.03	0.00
May 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	K	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.22	0.02	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.01
May 15	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.00
May 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 17	0.03	0.25	0.41	0.71	0.74	0.76	0.72	1.39	1.97	1.73	0.63	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.50	0.03	0.00	1.97	**0.44**
May 18	1.10	**2.61**	1.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**2.61**	0.21
May 19	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.12	0.02	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.00	0.12	0.01
May 20	0.04	0.01	0.02	0.12	0.23	0.27	0.68	1.07	S	1.01	0.04	0.00	0.03	0.03	0.13	0.14	0.06	0.04	0.14	0.08	0.00	0.01	0.00	0.00	0.00	1.07	0.18
May 21	0.00	0.00	0.05	0.02	0.00	0.11	0.05	S	0.07	0.04	0.07	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.11	0.02
May 22	0.00	0.00	0.87	0.37	0.13	0.10	S	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	0.87	0.06
May 23	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 24	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 25	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 26	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 27	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 28	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
May 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N	N	N	N	N	N	N	N	N	N	0.00	0.00	NA
Diurnal Maximum	1.10	2.61	1.16	0.71	0.74	0.76	0.72	1.39	1.97	1.73	0.63	0.04	0.22	0.03	0.13	0.14	0.06	0.04	0.14	0.08	0.02	0.19	0.50	0.05			
Diurnal Average	0.04	0.10	0.09	0.04	0.04	0.04	0.05	0.09	0.07	0.09	0.03	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.02	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.



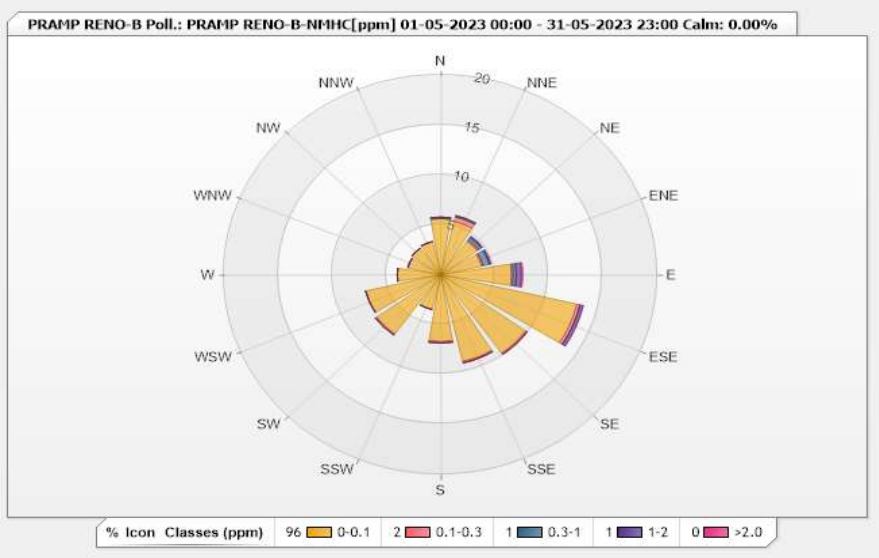


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-NMHC[ppm] Monthly: 05-2023

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

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

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	5.64	0	0.15	0	0	5.79
NNE	5.49	0.45	0.15	0	0	6.09
NE	4.15	0.15	0.3	0.15	0	4.75
ENE	3.86	0.15	0.59	0.15	0	4.75
E	6.53	0.15	0.3	0.45	0.15	7.58
ESE	12.91	0.3	0	0.3	0	13.51
SE	9.64	0.15	0	0	0	9.79
SSE	8.9	0.15	0	0	0	9.05
S	6.68	0.15	0	0	0	6.83
SSW	3.56	0	0	0	0	3.56
SW	7.27	0.15	0	0	0	7.42
WSW	7.12	0	0	0	0	7.12
W	4.01	0	0	0	0	4.01
WNW	3.12	0	0	0	0	3.12
NW	3.26	0	0	0	0	3.26
NNW	3.41	0	0	0	0	3.41
Summary	95.55	1.8	1.49	1.05	0.15	100



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

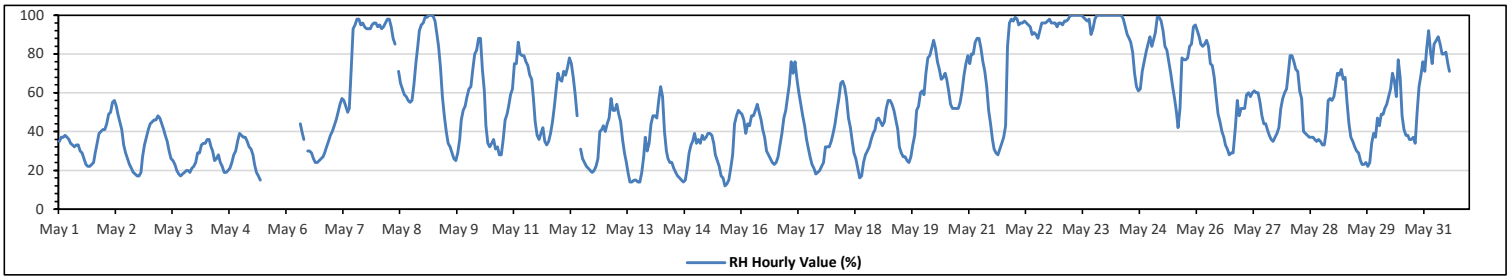
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on May 9 at hr 3	Hours in Service:	744	
Maximum Daily Value:	98.2	%	on May 23	Hours of Data:	711	
Minimum Hourly Value:	12	%	on May 15 at hr 15	Hours of Missing Data:	33	
Minimum Daily Value:	28.2	%	on May 4	Hours of Calibration:	0	
Monthly Average:	53.3	%		Operational Uptime:	95.6	

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			
May 1	35	37	37	38	37	36	34	33	32	33	33	30	29	26	23	22	22	23	24	29	34	39	40	41	22	41	32.0
May 2	41	44	49	50	55	56	53	49	45	41	33	29	26	23	21	19	18	17	17	19	27	33	37	41	17	56	35.1
May 3	44	45	46	46	48	47	44	41	38	35	30	26	25	23	20	18	17	18	19	20	20	19	21	22	17	48	30.5
May 4	24	29	29	33	34	34	36	36	32	30	25	26	28	24	22	19	19	20	21	24	28	30	35	39	19	39	**28.2**
May 5	38	37	37	35	32	31	28	23	19	17	15	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	15	38	NA
May 6	**N**	**N**	**N**	**N**	**N**	**N**	**N**	44	40	36	**K**	30	30	29	26	24	24	25	26	27	29	32	35	38	24	44	NA
May 7	40	43	46	50	54	57	56	53	50	52	72	93	95	98	98	95	96	94	93	93	93	95	96	96	40	98	75.3
May 8	94	95	93	94	96	98	98	94	88	85	**K**	71	65	62	59	58	56	55	56	64	75	84	92	95	55	98	79.4
May 9	96	99	99	**100**	**100**	**100**	97	90	84	73	58	48	40	34	32	29	26	25	29	36	46	51	53	58	25	**100**	62.6
May 10	62	63	72	80	82	88	88	72	61	43	34	32	34	36	31	32	28	28	36	46	49	53	59	62	28	88	53.0
May 11	75	75	86	80	79	79	76	74	69	67	58	45	38	36	39	42	35	33	35	39	45	53	61	70	33	86	57.9
May 12	67	66	71	69	73	78	75	68	59	48	**K**	31	26	24	22	21	20	19	20	22	26	40	41	43	19	78	44.7
May 13	40	44	47	57	51	51	54	49	45	36	29	24	19	14	14	15	15	14	14	19	27	37	30	34	14	57	32.5
May 14	44	48	48	47	56	63	58	40	30	26	24	24	21	19	17	16	15	14	15	21	29	33	35	39	14	63	32.6
May 15	34	36	34	38	36	37	39	39	38	34	28	25	22	17	16	**12**	13	15	21	28	44	48	51	50	**12**	51	31.5
May 16	49	46	39	44	43	48	48	51	54	50	46	41	37	30	28	26	24	23	24	27	33	39	47	51	23	54	39.5
May 17	57	64	76	70	76	67	60	54	48	43	36	31	27	23	21	18	19	20	22	24	32	32	32	35	18	76	41.1
May 18	39	44	51	57	65	66	63	57	47	42	36	29	26	21	16	17	24	28	30	32	36	39	41	46	16	66	39.7
May 19	47	45	43	45	52	56	56	54	51	46	41	32	29	27	27	25	24	27	33	38	51	53	60	61	24	61	42.6
May 20	59	70	78	79	83	87	83	76	72	67	68	70	67	61	54	52	52	52	52	55	61	69	75	79	52	87	67.5
May 21	75	80	80	86	88	88	83	76	71	63	51	44	36	31	29	28	31	34	37	43	84	96	98	97	28	98	63.7
May 22	99	98	95	96	96	97	96	95	94	90	91	90	88	92	96	96	96	97	98	96	96	96	94	96	88	99	94.9
May 23	96	95	97	97	98	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	98	97	98	90	93	98	**100**	**100**	**100**	**100**	**100**	90	**100**	**98.2**
May 24	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	94	90	88	86	81	70	63	61	62	71	76	81	85	89	61	**100**	87.3
May 25	84	87	91	99	99	97	92	84	82	76	70	63	57	50	42	52	78	77	77	78	84	85	94	95	42	99	78.9
May 26	92	89	85	84	85	87	84	75	74	68	58	49	45	40	37	33	31	28	29	29	42	56	48	52	28	92	58.3
May 27	52	52	59	60	58	60	61	60	60	55	48	44	44	41	38	36	35	37	39	42	52	57	60	62	35	62	50.5
May 28	71	79	79	76	72	71	61	57	40	39	38	37	37	37	36	35	36	35	33	33	40	56	57	56	33	79	50.5
May 29	58	64	70	69	72	67	68	55	44	37	35	32	30	29	25	23	23	24	22	24	34	39	37	47	22	72	42.8
May 30	43	49	49	52	54	58	62	70	66	58	77	68	48	41	38	38	36	36	37	34	50	63	69	76	34	77	53.0
May 31	71	83	92	81	75	85	87	89	85	80	80	81	75	71	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	71	92	NA
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	99	98	98	98	96	97	98	100	100	100	100	100			
Diurnal Average	60.9	63.5	65.9	67.1	68.3	69.6	68.0	63.2	58.6	53.8	50.3	47.8	44.4	41.4	38.1	36.9	36.8	37.0	38.6	41.8	49.8	55.4	58.0	61.0			

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 - May 2023

Summary of Hourly Averages

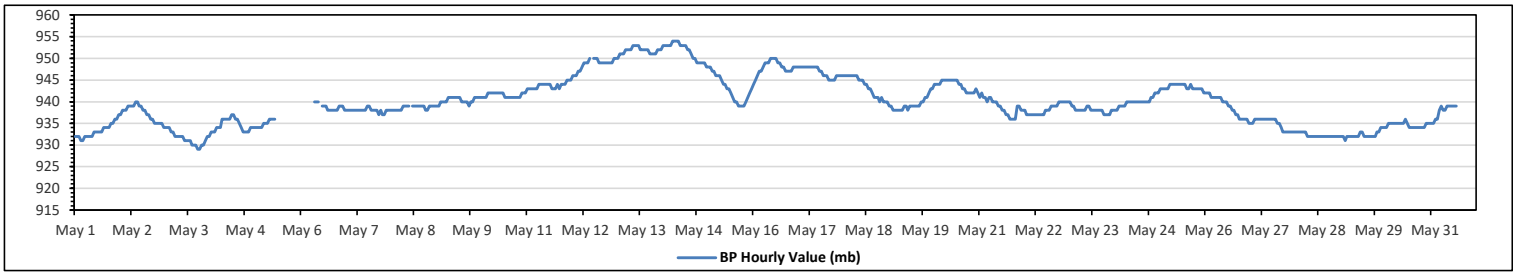
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	954	mb	on May 14 at hr 5	Hours in Service:	744	
Maximum Daily Value:	952	mb	on May 13	Hours of Data:	711	
Minimum Hourly Value:	929	mb	on May 3 at hr 17	Hours of Missing Data:	33	
Minimum Daily Value:	931	mb	on May 3	Hours of Calibration:	0	
Monthly Average:	940	mb		Operational Uptime:	95.6	

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
May 1	932	932	932	931	931	932	932	932	932	932	933	933	933	933	933	934	934	934	934	935	935	936	936	937	931	937	933
May 2	937	938	938	938	939	939	939	939	940	940	939	939	938	938	937	937	936	936	935	935	935	935	935	934	934	940	937
May 3	934	934	934	933	933	932	932	932	932	932	931	931	931	931	930	930	930	**929**	**929**	930	930	931	932	932	**929**	934	**931**
May 4	933	933	933	934	934	934	936	936	936	936	936	937	937	936	936	935	934	933	933	933	933	934	934	934	933	937	935
May 5	934	934	934	934	935	935	935	936	936	936	936	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	934	936	NA
May 6	**N**	**N**	**N**	**N**	**N**	**N**	**N**	940	940	940	**K**	939	939	939	938	938	938	938	938	938	939	939	939	938	938	940	NA
May 7	938	938	938	938	938	938	938	938	938	938	938	939	939	938	938	938	938	937	938	937	937	938	938	938	937	939	938
May 8	938	938	938	938	938	938	939	939	939	939	**K**	939	939	939	939	939	939	939	938	938	939	939	939	939	938	939	939
May 9	939	939	940	940	940	940	941	941	941	941	941	941	941	940	940	940	940	939	940	940	941	941	941	941	939	941	940
May 10	941	941	941	942	942	942	942	942	942	942	942	942	941	941	941	941	941	941	941	941	941	942	942	942	941	942	942
May 11	943	943	943	943	943	943	944	944	944	944	944	944	944	943	943	943	944	943	944	944	944	945	945	945	943	945	944
May 12	946	946	946	947	947	948	949	949	949	950	**K**	950	950	950	949	949	949	949	949	949	949	949	950	950	946	950	949
May 13	950	951	951	951	952	952	952	952	953	953	953	953	952	952	952	952	952	951	951	951	951	952	952	952	950	953	**952**
May 14	953	953	953	953	953	**954**	**954**	**954**	**954**	953	953	953	953	952	952	951	950	950	949	949	949	949	949	948	948	**954**	952
May 15	948	948	947	947	946	946	946	945	944	944	943	943	942	941	940	940	939	939	939	939	940	941	942	943	939	948	943
May 16	944	945	946	947	947	948	949	949	949	950	950	950	950	949	949	948	948	947	947	947	947	948	948	948	944	950	948
May 17	948	948	948	948	948	948	948	948	948	948	948	947	947	946	946	946	946	945	945	945	945	946	946	946	945	948	947
May 18	946	946	946	946	946	946	946	946	945	945	945	944	944	943	943	942	941	941	941	940	941	940	940	940	940	946	943
May 19	939	939	938	938	938	938	938	938	939	939	938	939	939	939	939	939	939	940	940	941	941	942	943	943	938	943	939
May 20	944	944	944	944	945	945	945	945	945	945	945	945	945	944	944	943	943	942	942	942	942	942	943	942	942	945	944
May 21	941	942	941	941	940	941	941	940	940	940	939	939	938	938	937	937	936	936	936	936	939	939	938	938	936	942	939
May 22	938	937	937	937	937	937	937	937	937	937	937	938	938	938	939	939	939	939	940	940	940	940	940	940	937	940	938
May 23	940	939	939	938	938	938	938	938	938	939	939	938	938	938	938	938	938	938	937	937	937	937	938	938	937	940	938
May 24	938	938	939	939	939	939	940	940	940	940	940	940	940	940	940	940	940	940	940	941	941	942	942	942	938	942	940
May 25	943	943	943	943	943	944	944	944	944	944	944	944	944	944	943	943	944	943	943	943	943	943	943	942	942	944	943
May 26	942	942	942	941	941	941	941	941	941	940	940	940	939	939	938	938	937	937	936	936	936	936	936	935	935	942	939
May 27	935	935	936	936	936	936	936	936	936	936	936	936	936	936	935	935	934	933	933	933	933	933	933	933	933	936	935
May 28	933	933	933	933	933	933	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932	932	933	932
May 29	932	932	931	932	932	932	932	932	932	932	933	933	932	932	932	932	932	932	932	933	933	934	934	934	931	934	932
May 30	934	935	935	935	935	935	935	935	935	935	936	935	934	934	934	934	934	934	934	934	934	935	935	935	934	936	935
May 31	935	935	936	936	938	939	938	938	939	939	939	939	939	939	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	935	939	NA
Diurnal Maximum	953	953	953	953	953	954	954	954	954	953	953	953	953	952	952	952	952	951	951	951	951	952	952	952			
Diurnal Average	940	940	940	940	940	940	941	941	941	941	940	941	940	940	940	940	940	939	939	939	940	940	940	940			

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

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



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

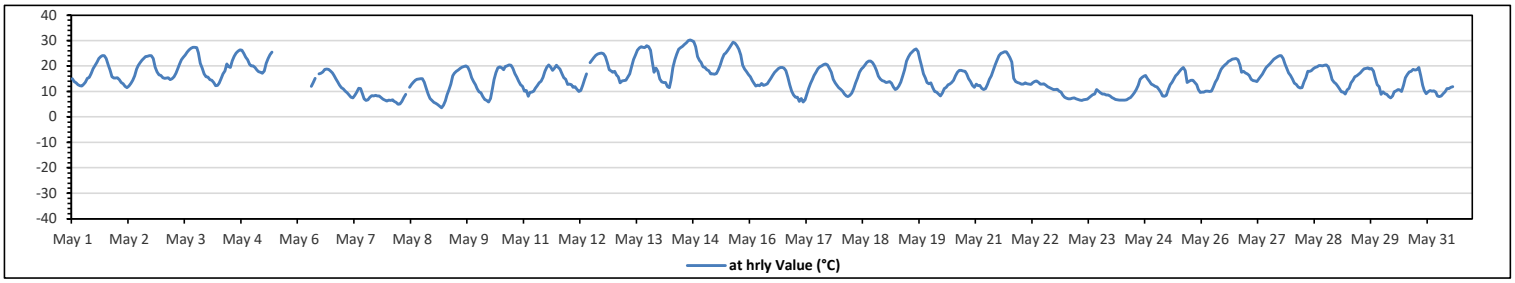
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	30.3	°C	on May 14 at hr 16	Hours in Service:	744
Maximum Daily Value:	22.3	°C	on May 14	Hours of Data:	711
Minimum Hourly Value:	3.6	°C	on May 9 at hr 4	Hours of Missing Data:	33
Minimum Daily Value:	8.0	°C	on May 23	Hours of Calibration:	0
Monthly Average:	15.5	°C		Operational Uptime:	95.6

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			
May 1	15.1	13.9	13.4	12.6	12.3	12.1	13	13.7	15.2	15.6	17.1	18.9	20.2	21.4	23	23.8	24.1	24	23	20.6	18.5	15.9	15.3	15.3	12.1	24.1	17.4
May 2	15.5	14.6	13.5	13.1	12	11.5	12.1	13.2	14.5	16.1	18.8	20.2	21.3	22.4	23.1	23.7	23.9	24.1	24	23	19.6	17.7	16.5	16.3	11.5	24.1	17.9
May 3	15.4	15.2	15.3	15.4	14.6	15	15.9	17.2	19	20.7	22.5	23.5	24.4	25.5	26.4	27	27.4	27.4	27.2	25.3	21.1	19.2	16.9	15.8	14.6	27.4	20.6
May 4	15.7	14.6	14.4	13.5	12.3	12.4	13.3	15	17	18.1	20.8	19.9	19.5	22.1	23.9	25.1	25.9	26.4	26.2	25	23.5	22.5	20.7	20	12.3	26.4	19.5
May 5	20	19.4	18.5	17.8	17.5	17.2	18.1	21.1	23	24.5	25.4	N	N	N	N	N	N	N	N	N	N	N	N	N	17.2	25.4	NA
May 6	N	N	N	N	N	N	N	12	13.5	15.2	K	17	17.2	17.7	18.7	18.8	18.7	18.1	17.3	16.3	14.9	13.6	12.5	11.5	11.5	18.8	NA
May 7	11	10.1	9.5	8.7	7.8	7.5	8.5	9.8	11.3	11.1	9.1	7.1	6.5	6.7	7.8	8.4	8.3	8.5	8.3	8.2	7.7	7	6.6	6.3	6.3	11.3	8.4
May 8	6.6	6.5	6.7	6.2	5.7	5	5.2	6.2	7.6	8.9	K	11.7	12.8	13.6	14.4	14.7	14.9	15.1	15.1	13.7	11.3	9	7.3	6.5	5.0	15.1	9.8
May 9	5.7	5.3	4.9	4.2	**3.6**	4.6	6.4	8.6	10.6	13	16.1	17.2	17.9	18.5	19	19.6	19.9	20	19.6	18	15.5	13.9	12.6	11.1	**3.6**	20.0	12.7
May 10	9.9	9.5	7.9	6.8	6.5	5.9	7.2	11.2	14.6	17.4	19.3	19.8	19.3	18.6	19.9	20.1	20.5	20.3	19.1	17.1	15.7	14.1	12.7	12	5.9	20.5	14.4
May 11	10.2	10.4	8.1	9.6	9.8	10.1	11.3	12.2	13.4	14.1	15.6	17.9	19.6	20.4	19.6	18.4	19.2	20.3	19.5	18.8	17.1	15.4	14.7	12.8	8.1	20.4	14.9
May 12	12.9	12.7	11.7	11.9	10.9	10	10.5	12.4	14.7	17	K	21.3	22.4	23.4	24.2	24.7	25	25.2	24.9	23.7	21.3	18.6	18.1	17.6	10.0	25.2	18.0
May 13	18	16.4	15.8	13.4	14.2	14.3	14.4	15.7	17	19.9	22.6	24.4	26.3	27.1	27.6	27.4	27.3	28	27.7	26.2	22.1	17.6	19.2	17.9	13.4	28.0	20.9
May 14	14.9	13.8	13.5	13.5	11.9	11.6	14.5	19.5	22.5	24.7	26.6	27.2	27.8	28.5	29.2	30	**30.3**	30	29.6	27.6	23.7	22.2	21.4	19.7	11.6	**30.3**	**22.3**
May 15	19.4	18.6	18.2	16.9	16.9	16.8	17.1	18.6	20.5	22.8	24.6	25.2	26.1	27.2	28.2	29.4	29.1	28	26.6	24.3	20.3	18.8	17.8	16.7	16.7	29.4	22.0
May 16	15.9	14.3	13.3	12.1	12.5	12.3	13.2	12.4	12.6	13.1	14.1	15.2	16.4	17.5	18.3	19	19.5	19.4	19.2	18.2	15.7	12.7	10.2	8.7	8.7	19.5	14.8
May 17	7.8	7.8	6.2	7.2	5.9	6.7	9.2	11.2	13.2	14.8	16.3	17.6	18.9	19.7	20.1	20.6	20.8	20.4	19	17.5	14.7	13.4	12.5	11.5	5.9	20.8	13.9
May 18	10.9	10.2	9	8.2	8	8.5	9.4	11.2	13.4	15.3	17.5	18.8	19.6	20.6	21.4	22	22	21.3	20	18.3	16	14.9	14.3	14	8.0	22.0	15.2
May 19	13.5	13.6	13.9	13.3	11.8	10.8	11.1	12.1	13.6	16	18.6	21.9	23.6	24.9	25.6	26.4	26.7	25.7	23	20	17	15.3	13.5	13.1	10.8	26.7	17.7
May 20	13.4	11.5	10	9.7	9	8.3	9.4	11.1	11.7	12.7	13	13.5	14.5	16.1	17.6	18.3	18.3	18.1	18	16.9	15.1	13.9	12.4	11.7	8.3	18.3	13.5
May 21	12.9	12.2	12.4	11.3	10.8	11.1	12.8	14.8	16.2	18.4	20.4	22.4	24	25	25.3	25.6	25.6	24.5	23.4	21.5	15.2	13.9	13.5	13.3	10.8	25.6	17.8
May 22	13	13	13.4	13.1	12.9	12.8	13.4	13.9	14.2	13.7	13	13	13.1	12.5	11.9	11.5	11.1	10.8	10.8	10.9	10.2	9.7	8.7	7.8	7.8	14.2	12.0
May 23	7.4	7.1	7.1	7.4	7.5	7.1	6.8	6.6	6.5	6.7	6.9	7	7.6	8.2	8.8	9.1	10.7	10.2	9.5	9.1	9	8.7	8.6	8.2	6.5	10.7	**8.0**
May 24	7.7	7.3	6.9	6.7	6.6	6.6	6.6	6.6	6.7	7.2	7.7	8.5	9.5	10.7	12.4	14.7	15.6	16	16.3	15.1	14.1	13	12.5	12	6.6	16.3	10.3
May 25	11.8	10.8	9.6	8.2	8.1	8.5	10.7	12.6	13.6	15	16.2	17	17.9	18.8	19.5	18.2	13.5	14	14.5	14.5	13.5	12.7	10.8	9.6	8.1	19.5	13.3
May 26	9.7	9.8	10.2	10.1	10	10.2	11.8	13.7	14.9	16.9	18.7	19.7	20.4	21.1	21.8	22.3	22.7	22.8	22.9	22.5	20.4	17.5	17.9	17.3	9.7	22.9	16.9
May 27	16.9	16.3	14.8	14.3	14.2	13.9	14.8	15.8	16.8	18.2	19.5	20.2	21	21.8	22.7	23.2	23.8	24	24	23	20.7	19.2	17.3	16.3	13.9	24.0	18.9
May 28	14.9	13.3	12.8	11.8	11.4	11.6	13.8	15.4	17.9	17.9	18.2	18.9	19.5	19.7	20.2	20.2	20.1	20.3	20.5	19.8	17.6	14.6	13.6	13.1	11.4	20.5	16.5
May 29	12	10.9	9.9	9.7	9.1	10.6	11.3	13.4	14.5	15.8	16.1	16.7	17.3	18.2	18.9	19.1	19.3	18.8	19.1	18.1	15.2	12.6	11.9	8.9	8.9	19.3	14.5
May 30	9.9	9.2	8.9	8	7.5	8.3	9.9	10.3	10.8	10.6	10	12.4	15.4	16.7	17.7	18	18.7	18.5	18.6	19.4	16.2	12.4	10.4	9.2	7.5	19.4	12.8
May 31	9.9	10.5	10.2	10.3	9.7	8.2	8	8.2	9.2	9.9	11.1	11.2	11.7	11.9	N	N	N	N	N	N	N	N	N	N	8.0	11.9	NA
Diurnal Maximum	20.0	19.4	18.5	17.8	17.5	17.2	18.1	21.1	23.0	24.7	26.6	27.2	27.8	28.5	29.2	30.0	30.3	30.0	29.6	27.6	23.7	22.5	21.4	20.0			
Diurnal Average	12.6	12.0	11.3	10.8	10.4	10.3	11.3	12.8	14.2	15.5	17.0	17.5	18.4	19.2	20.2	20.7	20.8	20.7	20.2	19.1	16.7	14.8	13.8	12.9			

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

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



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

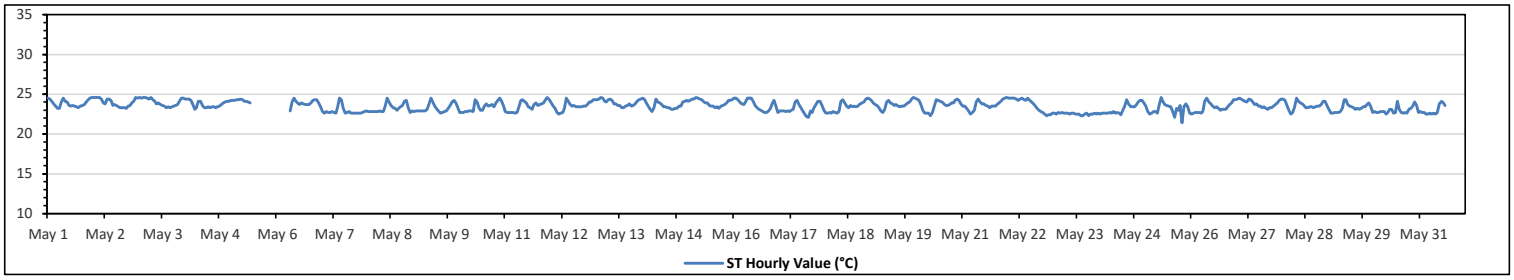
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	24.6	°C	on May 1 at hr 23	Hours in Service:	744
Maximum Daily Value:	24.0	°C	on May 3	Hours of Data:	714
Minimum Hourly Value:	21.4	°C	on May 25 at hr 19	Hours of Missing Data:	30
Minimum Daily Value:	22.5	°C	on May 23	Hours of Calibration:	0
Monthly Average:	23.5	°C		Operational Uptime:	96.0

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			
May 1	24.5	24.4	24.1	23.8	23.5	23.2	23.2	24.0	24.5	24.1	24.0	23.6	23.5	23.6	23.5	23.4	23.3	23.5	23.6	23.7	24.0	24.3	24.5	**24.6**	23.2	**24.6**	23.9
May 2	**24.6**	**24.6**	**24.6**	**24.6**	24.4	23.9	23.8	24.4	24.4	24.2	23.6	23.7	23.6	23.4	23.3	23.3	23.3	23.2	23.5	23.6	23.9	24.1	**24.6**	24.5	23.2	**24.6**	24.0
May 3	**24.6**	24.5	**24.6**	**24.6**	24.5	24.4	**24.6**	24.3	24.1	23.8	23.9	23.7	23.6	23.5	23.3	23.4	23.3	23.4	23.5	23.6	23.7	24.1	24.5	24.5	23.3	**24.6**	**24.0**
May 4	24.4	24.4	24.4	24.2	23.7	23.1	23.3	24.1	24.1	23.6	23.3	23.3	23.4	23.3	23.4	23.4	23.3	23.4	23.5	23.7	23.9	24.0	24.1	24.1	23.1	24.4	23.7
May 5	24.2	24.2	24.2	24.3	24.3	24.4	24.3	24.1	24.1	24.0	23.9	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	23.9	24.4	NA
May 6	**N**	**N**	**N**	**N**	**N**	**N**	**N**	22.9	24.0	24.5	24.1	23.9	23.7	23.9	23.8	23.7	23.7	23.7	23.9	24.2	24.3	24.3	23.9	23.4	22.9	24.5	NA
May 7	22.8	22.6	22.8	22.7	22.7	22.8	22.7	22.6	23.5	24.5	24.3	23.2	22.6	22.7	22.8	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.8	22.9	22.6	24.5	22.9
May 8	22.8	22.8	22.8	22.8	22.8	22.8	22.9	22.8	22.8	23.5	24.5	24.0	23.6	23.3	23.2	23.0	23.2	23.4	23.6	24.1	24.2	23.3	22.7	22.9	22.7	24.5	23.2
May 9	22.8	22.9	22.9	22.9	22.9	22.9	22.9	23.1	23.8	24.5	23.9	23.4	23.1	22.8	22.6	22.7	22.8	22.9	23.2	23.6	24.0	24.2	23.9	23.3	22.6	24.5	23.3
May 10	22.7	22.7	22.7	22.8	22.8	22.9	22.9	22.8	24.3	24.0	23.3	23.0	23.0	23.5	23.8	23.5	23.6	23.7	23.4	23.9	24.2	24.5	24.1	23.5	22.7	24.5	23.4
May 11	22.8	22.7	22.7	22.7	22.7	22.6	22.7	23.4	24.2	24.3	24.1	23.9	23.4	23.3	23.1	23.7	23.9	23.6	23.7	23.8	23.9	24.3	**24.6**	24.3	22.6	**24.6**	23.5
May 12	23.9	23.5	23.2	22.7	22.5	22.6	22.7	23.2	24.5	24.1	23.7	23.5	23.6	23.4	23.4	23.4	23.4	23.5	23.5	23.7	24.0	24.0	24.3	24.3	22.5	24.5	23.5
May 13	24.3	24.4	**24.6**	24.5	24.1	24.0	24.3	24.4	24.2	23.8	23.8	23.6	23.6	23.3	23.3	23.5	23.6	23.8	23.5	23.6	23.8	24.1	24.3	24.4	23.3	**24.6**	24.0
May 14	24.5	24.3	23.9	23.5	23.1	22.8	23.3	24.4	24.0	23.9	23.7	23.4	23.4	23.3	23.3	23.1	23.1	23.2	23.2	23.5	23.5	24.0	24.1	24.2	22.8	24.5	23.6
May 15	24.1	24.2	24.4	24.4	**24.6**	24.5	24.4	24.3	24.0	23.9	23.9	23.6	23.5	23.5	23.3	23.4	23.2	23.5	23.6	23.7	23.9	24.2	24.2	24.3	23.2	**24.6**	23.9
May 16	24.5	24.5	24.3	24.0	23.8	23.7	24.1	24.5	24.5	24.5	24.1	23.6	23.3	23.1	23.0	22.8	22.7	22.7	22.9	23.2	23.8	24.2	23.5	22.7	22.7	24.5	23.7
May 17	22.9	22.9	22.9	22.8	22.9	22.8	23.0	23.1	24.0	24.2	23.7	23.3	22.9	22.5	22.2	22.1	22.9	22.7	23.3	23.7	24.1	24.1	23.6	23.0	22.1	24.2	23.2
May 18	22.6	22.6	22.7	22.6	22.8	22.7	22.6	22.8	24.1	24.3	23.9	23.5	23.3	23.6	23.4	23.5	23.4	23.5	23.8	23.9	24.0	24.4	24.5	24.4	22.6	24.5	23.5
May 19	24.2	23.9	23.7	23.6	23.3	22.9	22.7	23.1	24.0	24.2	23.9	23.8	23.6	23.7	23.5	23.4	23.5	23.5	23.7	23.9	24.0	24.4	**24.6**	24.5	22.7	**24.6**	23.7
May 20	24.4	24.2	23.7	23.0	22.6	22.6	22.6	22.3	22.7	23.5	24.3	24.2	24.1	24.0	23.8	23.6	23.6	23.7	23.9	23.9	24.2	24.4	24.2	23.8	22.3	24.4	23.6
May 21	23.5	23.5	23.2	22.9	22.5	22.7	23.0	24.0	24.4	24.0	23.8	23.8	23.6	23.5	23.3	23.5	23.5	23.5	23.7	23.9	24.1	24.4	24.5	**24.6**	22.5	**24.6**	23.6
May 22	24.5	24.5	24.5	24.5	24.4	24.2	24.4	24.5	24.3	24.2	24.5	24.2	24.0	23.8	23.5	23.2	23.0	22.8	22.7	22.5	22.3	22.4	22.4	22.6	22.3	24.5	23.7
May 23	22.6	22.5	22.7	22.6	22.7	22.6	22.6	22.6	22.5	22.6	22.6	22.5	22.5	22.5	22.3	22.3	22.5	22.6	22.3	22.5	22.5	22.6	22.5	22.6	22.3	22.7	**22.5**
May 24	22.5	22.6	22.6	22.6	22.6	22.7	22.6	22.8	22.6	22.7	22.6	22.4	23.0	23.5	24.3	23.8	23.4	23.4	23.4	23.7	24.0	24.2	24.2	23.9	22.4	24.3	23.2
May 25	23.5	22.8	22.5	22.6	22.8	22.8	22.6	23.7	**24.6**	24.1	23.7	23.6	23.5	23.4	22.8	22.1	23.2	23.0	23.6	**21.4**	23.4	23.8	23.4	22.6	**21.4**	**24.6**	23.1
May 26	22.5	22.6	22.7	22.7	22.7	22.6	22.8	24.1	24.5	24.0	23.8	23.5	23.3	23.4	23.2	23.0	23.1	23.1	23.1	23.4	23.7	23.9	24.3	24.3	22.5	24.5	23.3
May 27	24.4	24.5	24.4	24.2	24.1	24.0	24.4	24.3	24.0	23.7	23.8	23.5	23.5	23.3	23.4	23.2	23.1	23.3	23.3	23.5	23.7	23.9	24.2	24.4	23.1	24.5	23.8
May 28	24.4	24.2	23.6	23.0	22.5	22.7	23.4	24.5	24.1	23.9	23.8	23.6	23.3	23.3	23.4	23.4	23.3	23.4	23.5	23.5	23.7	24.1	24.1	23.6	22.5	24.5	23.6
May 29	23.1	22.6	22.6	22.7	22.7	22.7	22.8	23.2	24.3	24.3	23.7	23.5	23.4	23.3	23.1	23.2	23.1	23.2	23.4	23.4	23.7	23.9	23.4	22.7	22.6	24.3	23.3
May 30	22.8	22.7	22.7	22.8	22.8	22.8	22.5	22.7	23.1	23.1	22.6	22.7	24.1	23.1	22.7	22.6	22.7	22.6	23.1	23.2	23.5	24.0	23.6	22.7	22.5	24.1	23.0
May 31	22.8	22.7	22.7	22.5	22.5	22.6	22.5	22.6	22.5	22.7	23.8	24.1	23.9	23.6	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	22.5	24.1	NA
Diurnal Maximum	24.6	24.6	24.6	24.6	24.6	24.5	24.6	24.5	24.6	24.5	24.5	24.2	24.1	24.0	24.3	23.8	23.9	23.8	23.9	24.2	24.3	24.5	24.6	24.6			
Diurnal Average	23.6	23.5	23.4	23.3	23.2	23.1	23.2	23.5	23.9	23.9	23.8	23.5	23.4	23.3	23.2	23.2	23.2	23.3	23.4	23.5	23.7	24.0	23.9	23.7			

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

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



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

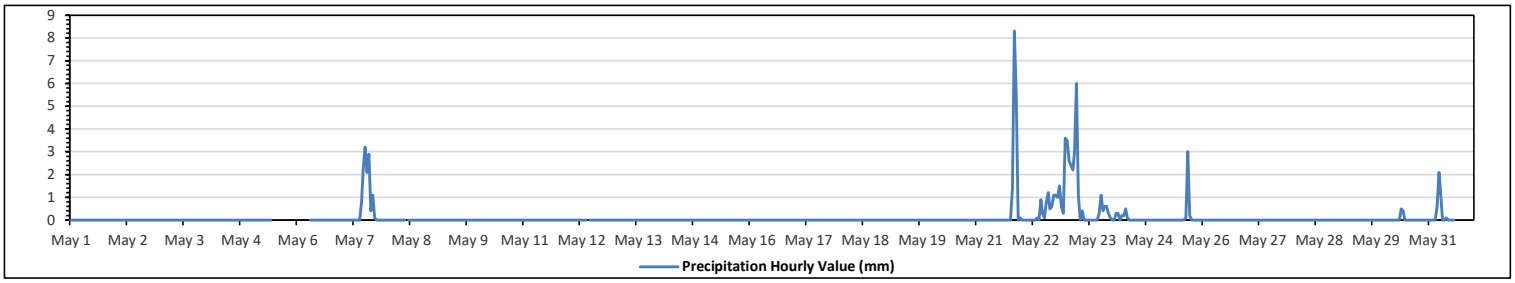
PRECIPITATION in mm

Maximum Hourly Value:	8.3	mm	on May 21 at hr 20	Hours in Service:	744	
Maximum Daily Value:	24.6	mm	on May 23	Hours of Data:	712	
Minimum Hourly Value:	0.0	mm	on May 1 at hr 0	Hours of Missing Data:	32	
Minimum Daily Value:	0.0	mm	on May 1	Hours of Calibration:	0	
Monthly Total:	76.1	mm		Operational Uptime:	95.7	

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	Total
May 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
May 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
May 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
May 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
May 5	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	0.0	0.0	NA
May 6	N	N	N	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	NA
May 7	0	0	0	0	0	0	0	0	0	0	0.8	2.2	3.2	2.1	2.9	0.4	1.1	0.1	0	0	0	0	0	0	0.0	3.2	12.8
May 8	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
May 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 12	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
May 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
May 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
May 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
May 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
May 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 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
May 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	8.3	5.4	0	0.1	0.0	8.3	15.2
May 22	0	0	0	0	0	0	0	0	0.1	0	0.9	0.3	0.1	0.8	1.2	0.5	0.6	1.1	1.1	1	1.5	0.6	0.3	3.6	0.0	3.6	13.7
May 23	3.5	2.6	2.4	2.2	3	6	1.1	0	0.4	0	0	0	0	0	0	0	0	0.3	1.1	0.4	0.6	0.6	0.3	0.1	0.0	6.0	24.6
May 24	0	0	0.3	0.3	0	0.2	0.2	0.5	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	1.6
May 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	3	0.2	0	0	0	0	0	0	0.0	3.0	3.3
May 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 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
May 30	0	0	0	0	0	0	0	0	0	0.5	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	0.9
May 31	0	0	0	0	0.6	2.1	1.2	0	0	0.1	0	0	0	0	N	N	N	N	N	N	N	N	N	N	0.0	2.1	NA
Diurnal Maximum	3.5	2.6	2.4	2.2	3.0	6.0	1.2	0.5	0.4	0.5	0.9	2.2	3.2	2.1	2.9	0.5	3.0	1.1	1.1	1.4	8.3	5.4	0.3	3.6			
Diurnal Average	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.4	0.2	0.0	0.1			

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

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



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

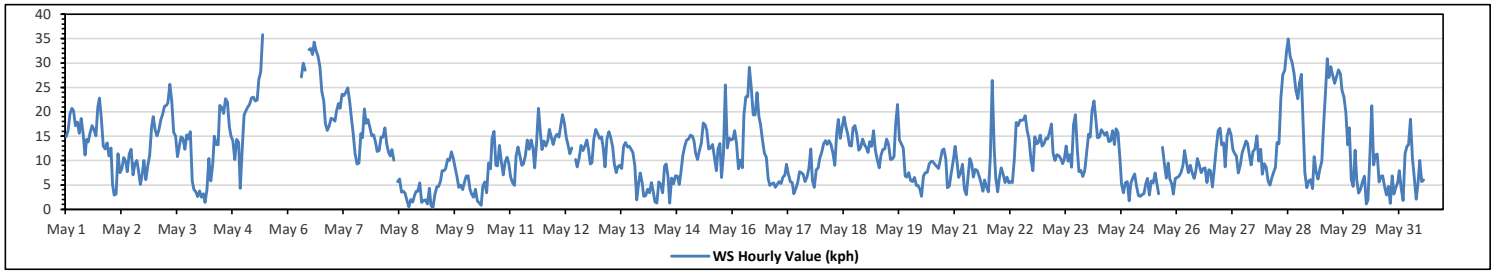
VECTOR WIND SPEED (VWS) in km/hr

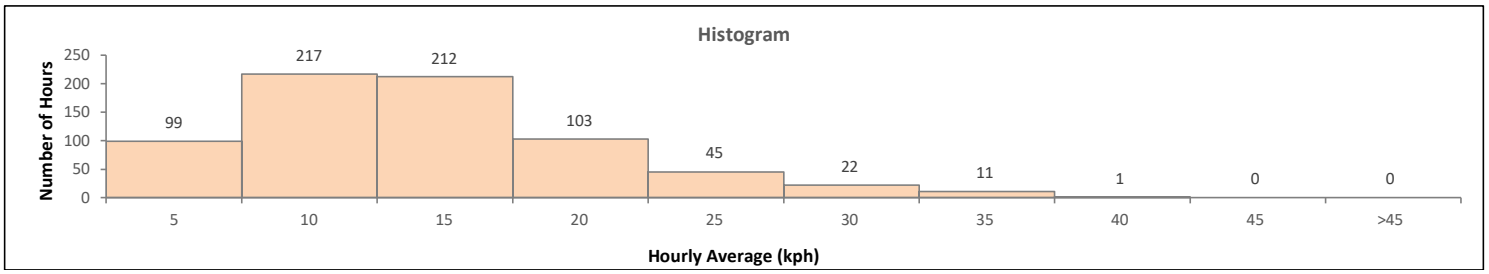
Maximum Hourly Value:	35.8	kph	on May 5 at hr 10	Hours in Service:	744	
Maximum Daily Value:	18.4	kph	on May 28	Hours of Data:	710	
Minimum Hourly Value:	0.3	kph	on May 9 at hr 6	Hours of Missing Data:	34	
Minimum Daily Value:	5.4	kph	on May 9	Hours of Calibration:	0	
Monthly Average:	2.8	kph		Operational Uptime:	95.4	

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			
May 1	14.9	16.2	19.6	20.7	20.2	17.2	17.9	15.6	18.6	15.5	11.1	14.3	13.8	15.7	17.2	16.3	15.1	21.0	22.8	18.6	13.0	12.4	13.6	10.9	10.9	22.8	16.3
May 2	12.6	5.1	2.9	3.1	11.4	7.5	8.3	10.6	9.8	7.7	11.3	12.3	7.1	9.4	10.0	7.9	5.1	6.9	10.0	6.1	8.9	11.1	16.8	19.0	2.9	19.0	9.2
May 3	16.3	15.1	16.3	18.4	19.6	21.1	21.3	21.8	25.6	22.2	15.8	15.0	10.8	12.7	14.9	14.5	12.3	15.3	14.4	15.9	5.8	4.1	3.6	2.6	2.6	25.6	14.8
May 4	3.8	2.5	3.2	1.4	4.0	10.4	5.8	9.2	15.0	13.3	13.2	21.3	20.9	19.7	22.7	22.0	16.9	15.1	14.0	10.2	14.3	13.7	4.3	12.1	1.4	22.7	12.0
May 5	19.3	20.1	20.9	21.5	22.8	23.0	22.2	22.4	26.6	28.2	**35.8**	N	N	N	N	N	N	N	N	N	N	N	N	N	19.3	**35.8**	NA
May 6	N	N	N	N	N	N	N	27.1	30.0	28.5	K	32.7	33.0	31.7	34.3	32.5	31.4	29.2	24.1	22.2	17.6	16.2	17.1	18.7	16.2	34.3	NA
May 7	18.5	18.1	20.2	21.7	20.7	23.6	23.3	24.0	24.9	22.1	19.0	15.5	11.3	9.3	9.5	15.5	14.7	20.6	17.6	18.4	16.8	15.1	15.3	13.7	9.3	24.9	17.9
May 8	11.9	12.0	14.8	14.8	16.7	13.3	11.6	10.9	12.2	10.1	K	5.7	6.2	3.5	3.7	3.3	1.8	0.5	2.0	1.5	2.9	3.7	3.7	5.4	0.5	16.7	7.5
May 9	1.4	1.8	1.9	1.1	4.3	0.8	**0.3**	2.9	4.6	4.7	5.8	7.9	7.9	8.4	10.3	10.0	11.8	10.4	8.4	6.8	4.5	5.0	4.0	5.6	**0.3**	11.8	**5.4**
May 10	6.8	6.9	4.1	3.1	2.5	4.1	1.7	1.3	0.8	4.7	5.6	3.4	9.5	8.3	14.5	16.0	9.0	8.9	13.1	9.7	7.1	9.7	10.7	9.5	0.8	16.0	7.1
May 11	6.6	5.5	4.9	10.9	12.8	10.9	9.0	9.3	10.9	14.2	12.3	14.2	12.5	8.5	13.6	20.7	15.7	12.2	14.0	13.0	14.0	16.4	14.8	13.3	4.9	20.7	12.1
May 12	14.8	15.4	14.8	17.3	19.4	17.6	14.7	13.3	11.4	12.6	K	10.2	8.7	10.5	13.1	12.0	13.0	14.2	12.4	9.3	9.6	14.4	16.4	15.5	8.7	19.4	13.5
May 13	14.5	14.9	12.8	8.7	14.4	15.9	14.7	12.7	9.3	7.5	8.7	9.0	8.4	12.9	13.7	12.8	13.0	12.4	11.7	9.0	1.9	5.4	7.4	5.4	1.9	15.9	10.7
May 14	2.7	2.8	4.1	3.4	5.5	3.5	1.6	1.3	5.6	5.1	3.4	8.8	9.3	6.6	1.3	6.4	5.2	6.9	6.8	5.1	7.4	11.0	12.9	14.2	1.3	14.2	5.9
May 15	14.4	15.2	15.0	14.0	11.5	10.2	12.0	13.6	17.7	17.3	16.1	12.4	12.6	13.3	10.6	7.9	12.4	13.5	6.5	11.3	25.5	12.6	14.6	14.2	6.5	25.5	13.5
May 16	14.4	16.1	13.5	8.3	10.1	8.5	19.3	23.1	23.1	29.1	24.9	19.4	19.3	23.9	18.9	17.4	14.2	11.5	10.7	6.2	4.9	5.2	5.4	4.5	4.5	29.1	14.7
May 17	5.1	5.7	5.3	6.6	7.0	9.2	7.2	5.7	5.5	3.2	4.2	5.5	7.7	7.5	7.2	5.7	6.6	8.4	12.4	5.9	4.5	8.1	8.5	10.5	3.2	12.4	6.8
May 18	11.7	13.4	14.1	13.3	14.1	13.3	11.6	9.0	15.6	18.4	14.5	16.9	18.9	17.1	15.5	13.1	13.0	16.7	17.2	15.3	12.1	12.7	14.4	13.2	9.0	18.9	14.4
May 19	12.7	11.7	13.9	12.9	16.1	12.0	10.1	8.5	11.0	12.2	12.4	14.4	13.3	10.2	10.3	10.8	17.3	21.5	14.2	13.4	12.5	6.8	6.6	7.5	6.6	21.5	12.2
May 20	5.9	5.7	6.5	4.9	4.9	4.1	2.7	6.8	7.5	7.6	9.3	9.8	9.8	9.3	8.8	8.4	10.2	12.1	12.4	10.3	4.4	4.8	7.5	9.9	2.7	12.4	7.7
May 21	12.9	9.7	6.5	7.4	9.2	4.1	3.0	7.1	10.4	9.3	6.6	8.2	8.0	6.8	5.4	3.7	6.0	4.6	3.6	10.7	26.4	12.6	6.4	3.6	3.0	26.4	8.0
May 22	6.3	8.5	7.3	5.5	6.6	5.4	5.7	5.5	10.3	17.8	17.2	18.3	18.2	18.4	19.2	16.2	14.4	10.3	7.9	14.9	13.4	13.7	15.2	13.0	5.4	19.2	12.1
May 23	13.5	14.6	14.4	15.8	17.5	11.6	10.0	11.2	11.0	10.4	9.4	10.2	13.0	9.9	11.2	8.6	17.3	19.4	12.1	7.7	8.0	6.7	7.9	11.6	6.7	19.4	11.8
May 24	15.4	14.8	20.3	22.2	18.3	14.7	14.8	16.3	15.7	15.2	15.8	13.9	14.0	16.1	13.3	16.5	15.7	10.4	5.2	3.4	5.4	5.7	1.7	5.3	1.7	22.2	12.9
May 25	6.4	7.3	4.7	2.8	2.7	3.0	3.2	5.3	6.3	2.9	5.8	5.4	7.4	5.5	3.2	K	12.7	9.4	6.4	9.5	6.2	5.2	3.1	6.3	2.7	12.7	5.7
May 26	6.5	6.8	7.6	9.0	12.0	9.6	7.5	9.0	7.4	6.3	7.8	10.4	9.1	7.5	8.3	8.5	5.5	8.1	7.9	4.6	8.4	12.6	16.1	16.6	4.6	16.6	8.9
May 27	13.2	13.6	8.7	15.0	16.5	15.4	12.2	11.4	10.9	7.4	9.0	11.6	12.8	14.0	13.5	11.0	9.1	11.9	12.4	15.1	9.9	12.3	7.2	9.4	7.2	16.5	11.8
May 28	8.6	5.8	5.0	6.5	7.5	8.6	13.7	13.4	22.9	27.6	28.5	32.5	34.9	31.3	30.1	27.9	24.4	22.7	25.8	27.7	18.4	7.4	4.4	5.8	4.4	34.9	**18.4**
May 29	6.1	4.2	10.8	7.7	6.2	8.3	9.9	16.6	23.5	30.9	27.0	29.2	27.5	25.8	27.2	28.6	27.8	24.4	23.1	19.9	13.2	16.7	6.1	4.7	4.2	30.9	17.7
May 30	12.1	6.1	3.3	4.1	5.6	6.8	1.1	1.9	10.7	21.2	9.1	11.1	11.3	5.6	6.8	6.9	4.7	2.9	4.7	1.2	6.9	3.1	4.4	5.5	1.1	21.2	6.5
May 31	7.9	4.3	1.8	11.4	12.9	13.2	18.5	10.6	6.4	2.1	5.7	10.0	5.7	6.0	N	N	N	N	N	N	N	N	N	N	1.8	18.5	NA
Diurnal Maximum	19.3	20.1	20.9	22.2	22.8	23.6	23.3	27.1	30.0	30.9	35.8	32.7	34.9	31.7	34.3	32.5	31.4	29.2	25.8	27.7	26.4	16.7	17.1	19.0			
Diurnal Average	10.6	10.0	10.0	10.5	11.8	10.9	10.5	11.5	13.6	14.0	13.0	13.7	13.4	12.8	13.4	13.6	13.0	13.2	12.2	11.1	10.5	9.8	9.3	9.9			

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

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



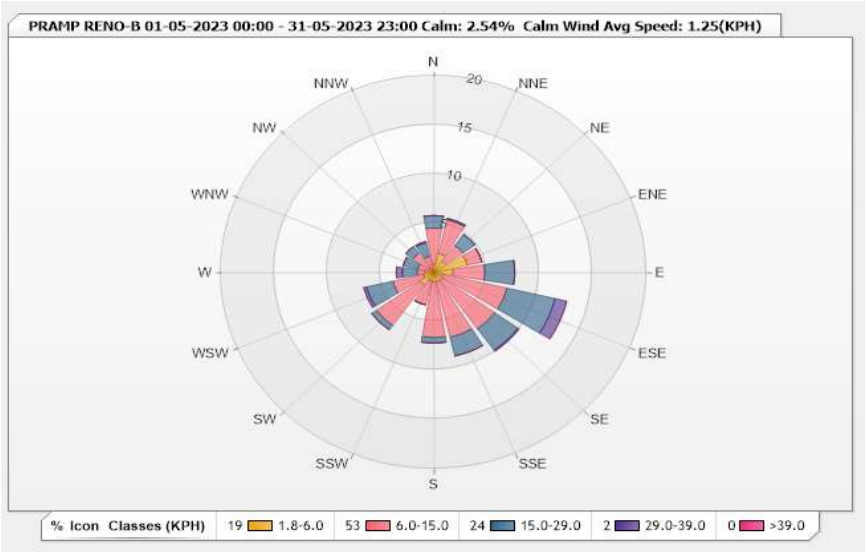


Station: PRAMP RENO-B Monitor: WDS [KPH] Monthly: 05-2023

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

Calm (WS<1.8kph): 2.54% Valid Data: 95.30%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.85	3.67	1.27	0	0	5.79
NNE	1.97	3.53	0.14	0	0	5.64
NE	1.41	1.97	1.41	0	0	4.79
ENE	3.24	1.41	0	0	0	4.65
E	1.83	2.96	2.82	0	0	7.61
ESE	0.85	6.21	4.65	1.13	0	12.84
SE	0.99	6.06	2.68	0.14	0	9.87
SSE	0.99	5.78	1.97	0	0	8.74
S	0.99	5.64	0.56	0	0	7.19
SSW	0.85	2.54	0	0	0	3.39
SW	1.55	5.08	0.56	0	0	7.19
WSW	0.99	2.96	2.54	0.28	0	6.77
W	0.85	0.71	1.41	0.56	0	3.53
WNW	0.42	1.13	1.41	0	0	2.96
NW	0.56	1.83	0.85	0	0	3.24
NNW	0.28	1.41	1.41	0.14	0	3.24
Summary	18.62	52.89	23.68	2.25	0	97.44



Peace River Area Monitoring Program

Reno-B Station - May 2023

Summary of Hourly Averages

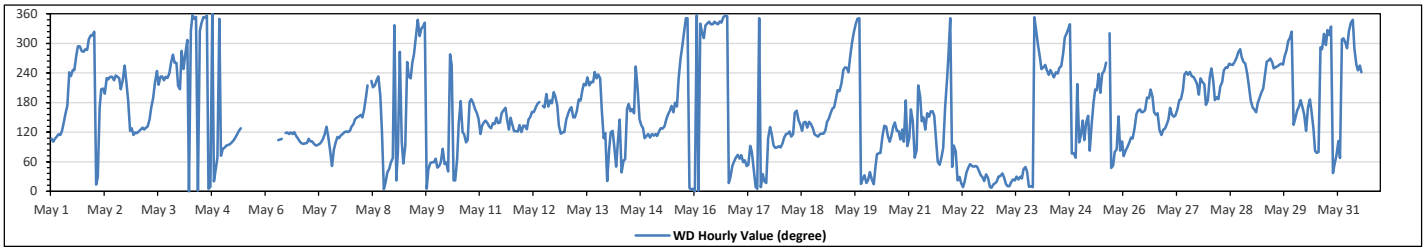
WIND DIRECTION (VWD) in sector

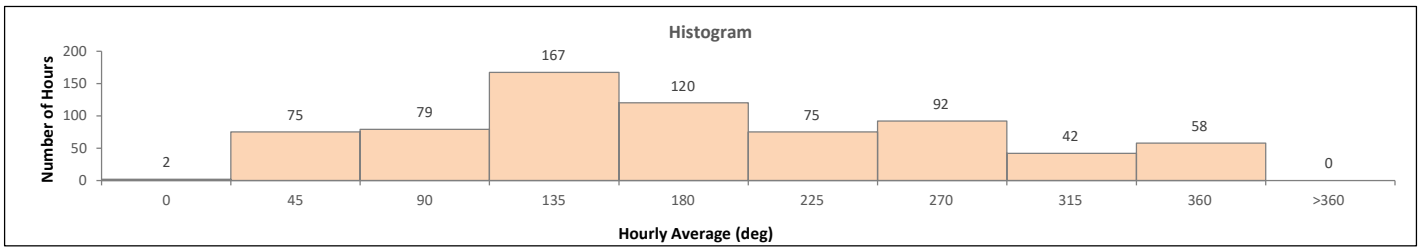
Monthly Average:	139 (SE)	degree	
Hours in Service:	744		
Hours of Data:	710		
Hours of Missing Data:	4		
Hours of Calibration:	0		
Operational Uptime:	95.4		

Day	Hourly Period Starting at (MST)																							Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
May 1	ESE	E	ESE	ESE	ESE	ESE	ESE	SE	SSE	S	WSW	SW	WSW	WSW	W	WNW	WNW	WNW	W	WNW	WNW	NW	NW	NW	226	SW
May 2	NW	NNE	NNE	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	WSW	SW	S	ESE	SE	ESE	ESE	203	SSW
May 3	ESE	ESE	SE	SE	SE	SE	SE	SE	SSE	S	SW	WSW	SW	SW	SW	SW	SW	SW	WSW	W	W	W	WSW	SSW	183	S
May 4	SSW	WNW	WSW	W	NW	N	NW	N	N	N	N	NW	NNW	N	N	N	N	N	N	NNE	NE	ENE	N	ENE	359	N
May 5	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	NA	NA
May 6	**N**	**N**	**N**	**N**	**N**	**N**	**N**	ESE	ESE	ESE	**K**	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	E	NA	NA
May 7	ESE	E	E	E	E	E	E	E	ESE	ESE	SE	ESE	E	NE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	105	ESE
May 8	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	S	SSW	**K**	SW	SSW	SSW	SW	SW	S	ESE	N	NNE	NE	NE	ENE	ENE	158	SSE
May 9	NNW	NNE	E	W	E	NE	E	W	SW	SW	W	W	NW	NNW	NW	NNW	NNW	NNW	N	NE	ENE	ENE	ENE	ENE	341	NNW
May 10	NE	NE	ENE	E	NE	ENE	NE	W	WSW	NNE	NNE	ENE	SE	S	ESE	ESE	E	ESE	S	S	S	SSE	SSE	SE	125	SE
May 11	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SSE	SSE	SSE	SE	SE	SSE	SE	ESE	ESE	ESE	SE	ESE	137	SE
May 12	SE	SE	SE	SE	SSE	SSE	SSE	S	S	S	**K**	S	SSE	SSW	S	S	S	SSW	S	S	SE	ESE	ESE	ESE	157	SSE
May 13	SE	SSE	SSE	S	SSE	SSE	SSE	S	S	SSW	SW	SSW	SW	SSW	SW	SW	WSW	SW	SW	SW	SSE	ESE	ESE	NNE	189	S
May 14	E	ESE	ESE	E	NE	E	SE	NE	ENE	ENE	SSE	S	SSE	SSE	SSE	WSW	SSW	SE	SE	SE	ESE	ESE	ESE	ESE	126	SE
May 15	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SSE	SSE	S	SSE	S	S	SW	W	WNW	NW	N	N	N	N	N	128	SE
May 16	N	N	N	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	NE	ENE	ENE	347	NNW
May 17	ENE	ENE	ENE	ENE	ENE	NE	NE	E	E	NE	N	N	N	N	NE	NNE	NNE	ESE	SE	ESE	E	E	E	E	65	ENE
May 18	E	E	ESE	ESE	ESE	ESE	ESE	ESE	SSE	SSE	SE	SE	ESE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	126	SE
May 19	ESE	ESE	SE	SE	SSE	SSE	SSE	S	SSW	SSW	SW	WSW	WSW	WSW	WSW	W	WNW	NW	NNW	N	N	NNE	NNE	NNE	231	SW
May 20	NNE	NNE	NE	NNE	NNE	NE	ENE	ENE	ENE	ESE	SE	SE	ESE	E	ESE	SE	SE	ESE	ESE	ESE	SE	E	S	E	103	ESE
May 21	ESE	SSE	SE	ENE	E	SSW	S	SE	SSE	SE	SSE	SSE	SSE	SSE	SSE	E	ENE	NE	ENE	E	SSE	SW	W	N	141	SE
May 22	NE	E	E	NNE	NNE	NNE	N	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NE	NNE	N	N	NNE	38	NE
May 23	NNE	NNE	NNE	NNE	NE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	N	N	N	N	NW	23	NNE
May 24	WNW	W	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	W	NW	NW	NNW	NNW	ENE	ENE	ENE	SW	E	262	W
May 25	ESE	SE	ESE	SE	SSE	E	SE	S	SSW	SSW	SW	SSW	WSW	WSW	W	**K**	NW	NE	NE	E	E	SSE	E	E	133	SE
May 26	ENE	E	E	E	ESE	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	S	SSE	SSE	SSE	ESE	ESE	SE	SE	139	SE
May 27	SE	SE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SW	WSW	SW	WSW	SW	SW	SW	SW	SSW	SW	SW	SW	S	S	197	SSW
May 28	SW	WSW	SW	S	S	S	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WNW	W	W	WSW	WSW	SSW	S	253	WSW
May 29	SSE	SSE	SSE	S	S	SSW	SSW	SW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	WNW	NW	NW	SE	256	WSW
May 30	SSE	SSE	S	S	SSE	SSE	ESE	SSE	S	SSE	SE	E	ENE	E	WNW	WNW	NW	WNW	NW	NW	NNW	NE	NE	ENE	137	SE
May 31	E	ENE	NW	NW	WNW	WNW	NW	NNW	NNW	WNW	WSW	WSW	WSW	WSW	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	NA	NA

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 - May 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	35.8	kph	on May 5 at hr 10	Hours in Service:	744
Maximum Daily Value:	18.4	kph	on May 28	Hours of Data:	710
Minimum Hourly Value:	0.3	kph	on May 9 at hr 6	Hours of Missing Data:	34
Minimum Daily Value:	5.4	kph	on May 9	Hours of Calibration:	0
Monthly Average:	2.8	kph		Operational Uptime:	95.4

WIND DIRECTION

Monthly Average: 139 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			
May 1	14.9	16.2	19.6	20.7	20.2	17.2	17.9	15.6	18.6	15.5	11.1	14.3	13.8	15.7	17.2	16.3	15.1	21.0	22.8	18.6	13.0	12.4	13.6	10.9	10.9	22.8	16.3
	ESE	E	ESE	ESE	ESE	ESE	ESE	SE	SSE	S	WSW	SW	WSW	WSW	W	WNW	WNW	WNW	W	WNW	WNW	NW	NW	NW			
May 2	12.6	5.1	2.9	3.1	11.4	7.5	8.3	10.6	9.8	7.7	11.3	12.3	7.1	9.4	10.0	7.9	5.1	6.9	10.0	6.1	8.9	11.1	16.8	19.0	2.9	19.0	9.2
	NW	NNE	NNE	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	WSW	SW	S	ESE	SE	ESE	ESE			
May 3	16.3	15.1	16.3	18.4	19.6	21.1	21.3	21.8	25.6	22.2	15.8	15.0	10.8	12.7	14.9	14.5	12.3	15.3	14.4	15.9	5.8	4.1	3.6	2.6	2.6	25.6	14.8
	ESE	ESE	SE	SE	SE	SE	SE	SE	SSE	S	SW	WSW	SW	SW	SW	SW	SW	SW	WSW	W	W	W	WSW	SSW			
May 4	3.8	2.5	3.2	1.4	4.0	10.4	5.8	9.2	15.0	13.3	13.2	21.3	20.9	19.7	22.7	22.0	16.9	15.1	14.0	10.2	14.3	13.7	4.3	12.1	1.4	22.7	12.0
	SSW	WNW	WSW	W	NW	N	NW	N	N	N	N	NW	NNW	N	N	N	N	N	N	NNE	NE	ENE	N	ENE			
May 5	19.3	20.1	20.9	21.5	22.8	23.0	22.2	22.4	26.6	28.2	**35.8**	N	N	N	N	N	N	N	N	N	N	N	N	N	19.3	**35.8**	NA
	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	N	N	N	N	N	N	N	N	N	N	N	N	N			
May 6	N	N	N	N	N	N	N	27.1	30.0	28.5	K	32.7	33.0	31.7	34.3	32.5	31.4	29.2	24.1	22.2	17.6	16.2	17.1	18.7	16.2	34.3	NA
	N	N	N	N	N	N	N	ESE	ESE	ESE	K	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	E			
May 7	18.5	18.1	20.2	21.7	20.7	23.6	23.3	24.0	24.9	22.1	19.0	15.5	11.3	9.3	9.5	15.5	14.7	20.6	17.6	18.4	16.8	15.1	15.3	13.7	9.3	24.9	17.9
	ESE	E	E	E	E	E	E	E	ESE	ESE	SE	ESE	E	NE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE			
May 8	11.9	12.0	14.8	14.8	16.7	13.3	11.6	10.9	12.2	10.1	K	5.7	6.2	3.5	3.7	3.3	1.8	0.5	2.0	1.5	2.9	3.7	3.7	5.4	0.5	16.7	7.5
	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	S	SSW	K	SW	SSW	SSW	SW	SW	S	ESE	N	NNE	NE	NE	ENE	ENE			
May 9	1.4	1.8	1.9	1.1	4.3	0.8	**0.3**	2.9	4.6	4.7	5.8	7.9	7.9	8.4	10.3	10.0	11.8	10.4	8.4	6.8	4.5	5.0	4.0	5.6	**0.3**	11.8	**5.4**
	NNW	NNE	E	W	E	NE	E	W	SW	SW	W	W	NW	NNW	NW	NNW	NNW	NNW	N	NE	ENE	ENE	ENE	ENE			
May 10	6.8	6.9	4.1	3.1	2.5	4.1	1.7	1.3	0.8	4.7	5.6	3.4	9.5	8.3	14.5	16.0	9.0	8.9	13.1	9.7	7.1	9.7	10.7	9.5	0.8	16.0	7.1
	NE	NE	ENE	E	NE	ENE	NE	W	WSW	NNE	NNE	ENE	SE	S	ESE	ESE	E	ESE	S	S	S	SSE	SSE	SE			
May 11	6.6	5.5	4.9	10.9	12.8	10.9	9.0	9.3	10.9	14.2	12.3	14.2	12.5	8.5	13.6	20.7	15.7	12.2	14.0	13.0	14.0	16.4	14.8	13.3	4.9	20.7	12.1
	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SSE	SSE	SSE	SE	SE	SSE	SE	ESE	ESE	ESE	SE	ESE			
May 12	14.8	15.4	14.8	17.3	19.4	17.6	14.7	13.3	11.4	12.6	K	10.2	8.7	10.5	13.1	12.0	13.0	14.2	12.4	9.3	9.6	14.4	16.4	15.5	8.7	19.4	13.5
	SE	SE	SE	SE	SSE	SSE	SSE	S	S	S	K	S	SSE	SSW	S	S	S	SSW	S	S	SE	ESE	ESE	ESE			
May 13	14.5	14.9	12.8	8.7	14.4	15.9	14.7	12.7	9.3	7.5	8.7	9.0	8.4	12.9	13.7	12.8	13.0	12.4	11.7	9.0	1.9	5.4	7.4	5.4	1.9	15.9	10.7
	SE	SSE	SSE	S	SSE	SSE	SSE	S	S	SSW	SW	SSW	SW	SSW	SW	SW	WSW	SW	SW	SW	SSE	ESE	ESE	NNE			
May 14	2.7	2.8	4.1	3.4	5.5	3.5	1.6	1.3	5.6	5.1	3.4	8.8	9.3	6.6	1.3	6.4	5.2	6.9	6.8	5.1	7.4	11.0	12.9	14.2	1.3	14.2	5.9
	E	ESE	ESE	E	NE	E	SE	NE	ENE	ENE	SSE	S	SSE	SSE	SSE	WSW	SSW	SE	SE	SE	ESE	ESE	ESE	ESE			
May 15	14.4	15.2	15.0	14.0	11.5	10.2	12.0	13.6	17.7	17.3	16.1	12.4	12.6	13.3	10.6	7.9	12.4	13.5	6.5	11.3	25.5	12.6	14.6	14.2	6.5	25.5	13.5
	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SSE	SSE	S	SSE	S	S	SW	W	WNW	NW	N	N	N	N	N			
May 16	14.4	16.1	13.5	8.3	10.1	8.5	19.3	23.1	23.1	29.1	24.9	19.4	19.3	23.9	18.9	17.4	14.2	11.5	10.7	6.2	4.9	5.2	5.4	4.5	4.5	29.1	14.7
	N	N	N	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	NE	ENE	ENE			
May 17	5.1	5.7	5.3	6.6	7.0	9.2	7.2	5.7	5.5	3.2	4.2	5.5	7.7	7.5	7.2	5.7	6.6	8.4	12.4	5.9	4.5	8.1	8.5	10.5	3.2	12.4	6.8
	ENE	ENE	ENE	ENE	ENE	NE	NE	E	E	NE	N	N	N	N	NE	NNE	NNE	ESE	SE	ESE	E	E	E	E			
May 18	11.7	13.4	14.1	13.3	14.1	13.3	11.6	9.0	15.6	18.4	14.5	16.9	18.9	17.1	15.5	13.1	13.0	16.7	17.2	15.3	12.1	12.7	14.4	13.2	9.0	18.9	14.4
	E	E	ESE	ESE	ESE	ESE	ESE	ESE	SSE	SSE	SE	SE	ESE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE			
May 19	12.7	11.7	13.9	12.9	16.1	12.0	10.1	8.5	11.0	12.2	12.4	14.4	13.3	10.2	10.3	10.8	17.3	21.5	14.2	13.4	12.5	6.8	6.6	7.5	6.6	21.5	12.2
	ESE	ESE	SE	SE	SSE	SSE	SSE	S	SSW	SSW	SW	WSW	WSW	WSW	WSW	W	WNW	NW	NNW	N	N	NNE	NNE	NNE			
May 20	5.9	5.7	6.5	4.9	4.9	4.1	2.7	6.8	7.5	7.6	9.3	9.8	9.8	9.3	8.8	8.4	10.2	12.1	12.4	10.3	4.4	4.8	7.5	9.9	2.7	12.4	7.7
	NNE	NNE	NE	NNE	NNE	NE	ENE	ENE	ENE	ESE	SE	SE	ESE	E	ESE	SE	SE	ESE	ESE	ESE	SE	E	S	E			
May 21	12.9	9.7	6.5	7.4	9.2	4.1	3.0	7.1	10.4	9.3	6.6	8.2	8.0	6.8	5.4	3.7	6.0	4.6	3.6	10.7	26.4	12.6	6.4	3.6	3.0	26.4	8.0
	ESE	SSE	SE	ENE	E	SSW	S	SE	SSE	SE	SSE	SSE	SSE	SSE	SSE	E	ENE	NE	ENE	E	SSE	SW	W	N			
May 22	6.3	8.5	7.3	5.5	6.6	5.4	5.7	5.5	10.3	17.8	17.2	18.3	18.2	18.4	19.2	16.2	14.4	10.3	7.9	14.9	13.4	13.7	15.2	13.0	5.4	19.2	12.1
	NE	E	E	NNE	NNE	NNE	N	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	N	N	NNE			
May 23	13.5	14.6	14.4	15.8	17.5	11.6	10.0	11.2	11.0	10.4	9.4	10.2	13.0	9.9	11.2	8.6	17.3	19.4	12.1	7.7	8.0	6.7	7.9	11.6	6.7	19.4	11.8
	NNE	NNE	NNE	NNE	NE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	N	N	N	N	NW			
May 24	15.4	14.8	20.3	22.2	18.3	14.7	14.8	16.3	15.7	15.2	15.8	13.9	14.0	16.1	13.3	16.5	15.7	10.4	5.2	3.4	5.4	5.7	1.7	5.3	1.7	22.2	12.9
	WNW	W	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	W	NW	NW	NNW	NNW	ENE	ENE	ENE	SW	E			
May 25	6.4	7.3	4.7	2.8	2.7	3.0	3.2	5.3	6.3	2.9	5.8	5.4	7.4	5.5	3.2	K	12.7	9.4	6.4	9.5	6.2	5.2	3.1	6.3	2.7	12.7	5.7
	ESE	SE	ESE	SE	SSE	E	SE	S	SSW	SSW	SW	SSW	WSW	WSW	W	K	NW	NE	NE	E	E	SSE	E	E			
May 26	6.5	6.8	7.6	9.0	12.0	9.6	7.5	9.0	7.4	6.3	7.8	10.4	9.1	7.5	8.3	8.5	5.5	8.1	7.9	4.6	8.4	12.6	16.1	16.6	4.6	16.6	8.9
	ENE	E	E	E	ESE	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	S	SSE	SSE	SSE	ESE	ESE	SE	SE			
May 27	13.2	13.6	8.7	15.0	16.5	15.4	12.2	11.4	10.9	7.4	9.0	11.6	12.8	14.0	13.5	11.0	9.1	11.9	12.4	15.1	9.9	12.3	7.2	9.4	7.2	16.5	11.8
	SE	SE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SW	WSW	SW	WSW	SW	SW	SW	SW	SSW	SW	SW	SW	S	S			
May 28	8.6	5.8	5.0	6.5	7.5	8.6	13.7	13.4	22.9	27.6	28.5	32.5	34.9	31.3	30.1	27.9	24.4	22.7	25.8	27.7	18.4	7.4	4.4	5.8	4.4	34.9	**18.4**
	SW	WSW	SW	S	S	S	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WNW	W	W	WSW	WSW	SSW	S			
May 29	6.1	4.2	10.8	7.7	6.2	8.3	9.9	16.6	23.5	30.9	27.0	29.2	27.5	25.8	27.2	28.6	27.8	24.4	23.1	19.9	13.2	16.7	6.1	4.7	4.2	30.9	17.7
	SSE	SSE	SSE	S	S	SSW	SSW	SW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	WNW	NW	NW	SE			
May 30	12.1	6.1	3.3	4.1	5.6	6.8	1.1	1.9	10.7	21.2	9.1	11.1	11.3	5.6	6.8	6.9	4.7	2.9	4.7	1.2	6.9	3.1	4.4	5.5	1.1	21.2	6.5
	SSE	SSE	S	S	SSE	SSE	ESE	SSE	S	SSE	SE	E	ENE	E	WNW	WNW	NW	WNW	NW	NW	NNW	NE	NE	ENE			
May 31	7.9	4.3	1.8	11.4	12.9	13.2	18.5	10.6	6.4	2.1	5.7	10.0	5.7	6.0	N	N	N	N	N	N	N	N	N	N	1.8	18.5	NA
	E	ENE	NW	NW	WNW	WNW	NW	NNW	NNW	WNW	WSW	WSW	WSW	WSW	N	N	N	N	N	N	N	N	N	N			

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

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

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

PRC STATION

Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

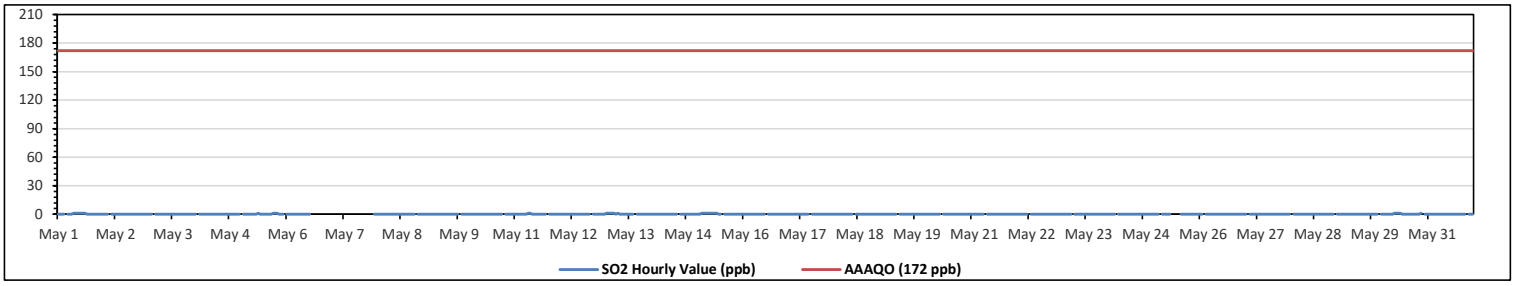
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

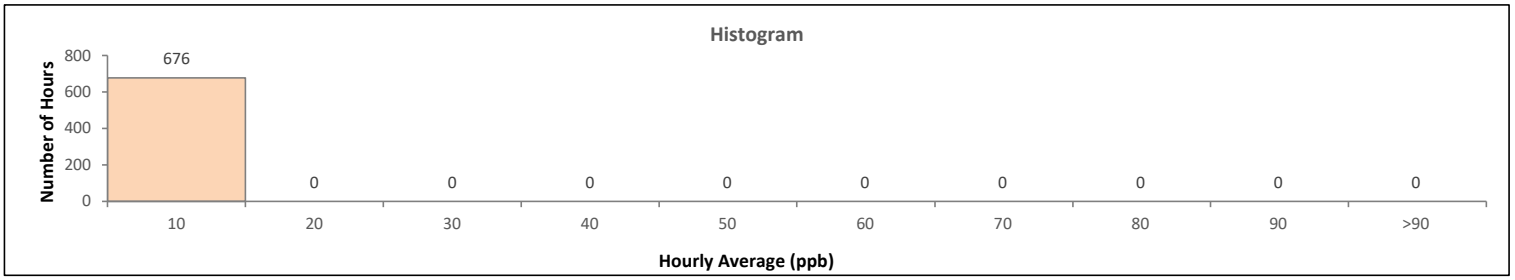
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on May 1 at hr 8	Hours in Service:	744	
Maximum Daily Value:	0.4	ppb	on May 15	Hours of Data:	676	
Minimum Hourly Value:	0	ppb	on May 1 at hr 0	Hours of Missing Data:	31	
Minimum Daily Value:	0.0	ppb	on May 2	Hours of Calibration:	37	
Monthly Average:	0.1	ppb		Operational Uptime:	95.8	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0	0	0	0	S	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.3
May 2	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 3	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 4	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 5	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	S	0	1	0.2
May 6	0	0	0	0	0	0	0	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	0	0	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1	NRM	S	0	0	0	1	NA
May 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
May 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
May 10	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
May 11	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	1	0.1
May 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
May 13	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.3
May 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
May 15	0	0	1	1	1	1	1	1	1	1	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.4
May 16	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 17	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 18	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 19	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 20	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 21	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 22	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 23	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 24	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 25	0	0	0	S	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 26	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
May 27	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 28	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0.0
May 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
May 30	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	S	0	0	0	1	0.2
May 31	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
Diurnal Maximum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0			

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



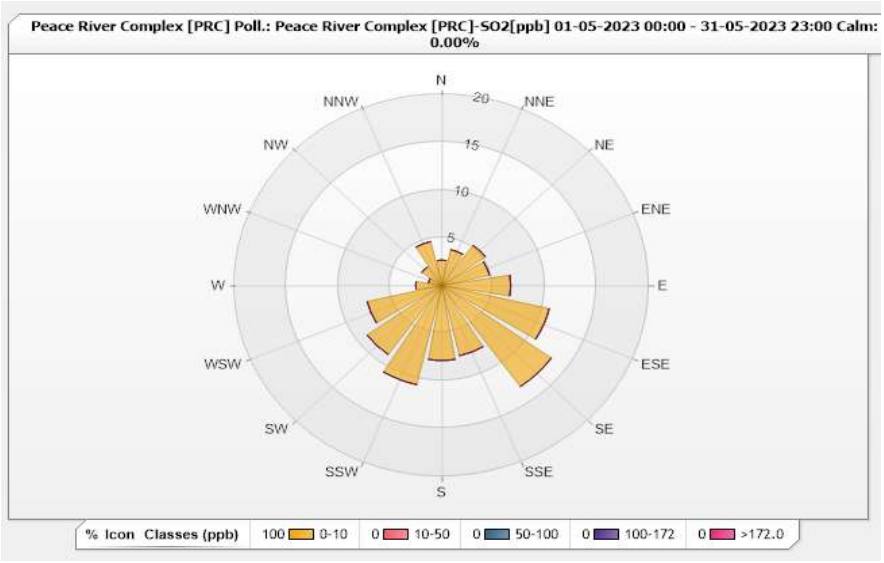


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 90.86% Calm Avg: 0.00 [ppm]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	2.66	0	0	0	0	2.66
NNE	3.85	0	0	0	0	3.85
NE	5.18	0	0	0	0	5.18
ENE	4.73	0	0	0	0	4.73
E	6.66	0	0	0	0	6.66
ESE	10.65	0	0	0	0	10.65
SE	13.02	0	0	0	0	13.02
SSE	7.54	0	0	0	0	7.54
S	7.84	0	0	0	0	7.84
SSW	10.65	0	0	0	0	10.65
SW	8.88	0	0	0	0	8.88
WSW	7.4	0	0	0	0	7.4
W	2.51	0	0	0	0	2.51
WNW	1.33	0	0	0	0	1.33
NW	2.37	0	0	0	0	2.37
NNW	4.73	0	0	0	0	4.73
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

HYDROGEN SULPHIDE (H_2S) in ppb

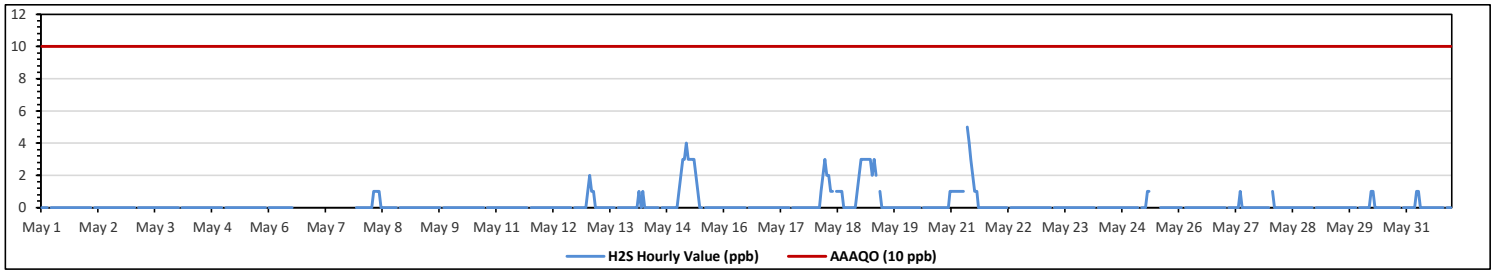
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 10 ppb, 24-Hour 3 ppb

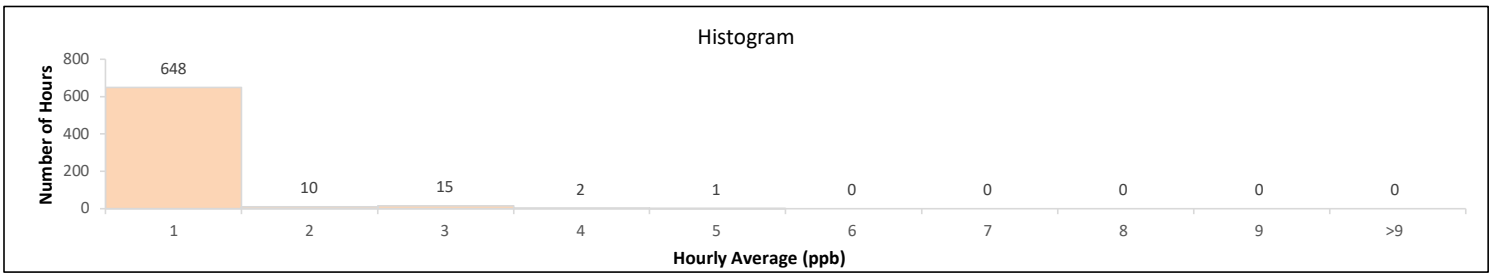
Number of 1-Hour Exceedances:	0		Number of 24-Hour Exceedances:	0	
Maximum Hourly Value:	5	ppb	on May 21 at hr 8	Hours in Service:	744
Maximum Daily Value:	1.2	ppb	on May 15	Hours of Data:	676
Minimum Hourly Value:	0	ppb	on May 1 at hr 0	Hours of Missing Data:	31
Minimum Daily Value:	0.0	ppb	on May 1	Hours of Calibration:	37
Monthly Average:	0.2	ppb		Operational Uptime:	95.8

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 2	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 3	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 4	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 5	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
May 6	0	0	0	0	0	0	0	0	0	0	0	0	0	P	P	P	P	P	P	P	P	P	P	P	0	0	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	NRM	S	0	0	0	0	NA
May 8	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.2
May 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
May 10	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
May 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.0
May 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
May 13	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	2	0.2
May 14	0	0	0	1	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0.1
May 15	1	2	3	3	4	3	3	3	3	2	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	4	**1.2**
May 16	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 17	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 18	0	0	0	1	2	3	2	2	1	1	S	1	1	1	1	0	0	0	0	0	0	0	1	2	0	3	0.8
May 19	3	3	3	3	3	3	2	3	2	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.1
May 20	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.0
May 21	1	1	1	1	1	1	1	S	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	**5**	1.0
May 22	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 23	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 24	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 25	0	0	0	S	0	0	0	1	1	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	1	0.1
May 26	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
May 27	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
May 28	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.0
May 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
May 30	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	0.1
May 31	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.0
Diurnal Maximum	3	3	3	3	4	3	3	3	5	4	3	2	1	1	1	0	0	0	0	0	0	0	1	2			
Diurnal Average	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.5	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1			

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.



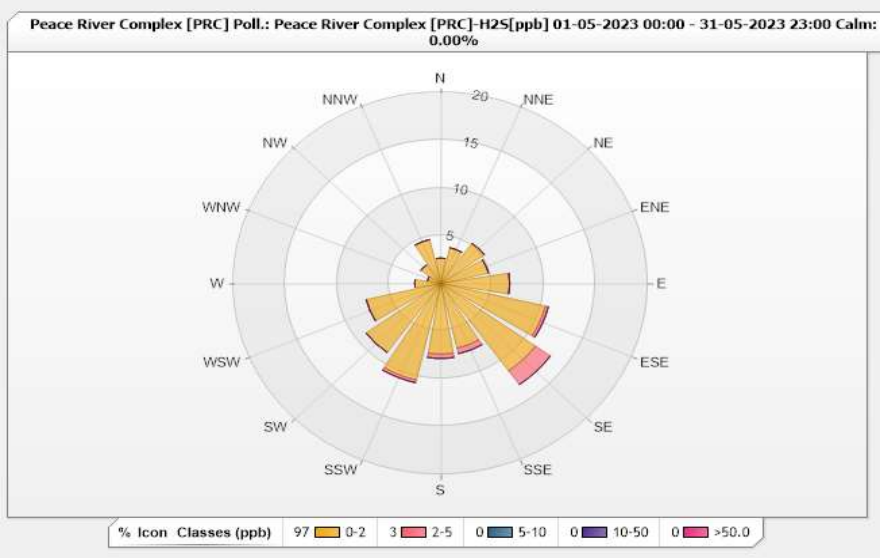


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 90.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	2.66	0	0	0	0	2.66
NNE	3.85	0	0	0	0	3.85
NE	5.18	0	0	0	0	5.18
ENE	4.73	0	0	0	0	4.73
E	6.66	0	0	0	0	6.66
ESE	10.36	0.3	0	0	0	10.66
SE	11.24	1.78	0	0	0	13.02
SSE	6.95	0.59	0	0	0	7.54
S	7.4	0.44	0	0	0	7.84
SSW	10.36	0.3	0	0	0	10.66
SW	8.88	0	0	0	0	8.88
WSW	7.4	0	0	0	0	7.4
W	2.51	0	0	0	0	2.51
WNW	1.33	0	0	0	0	1.33
NW	2.37	0	0	0	0	2.37
NNW	4.73	0	0	0	0	4.73
Summary	96.61	3.41	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

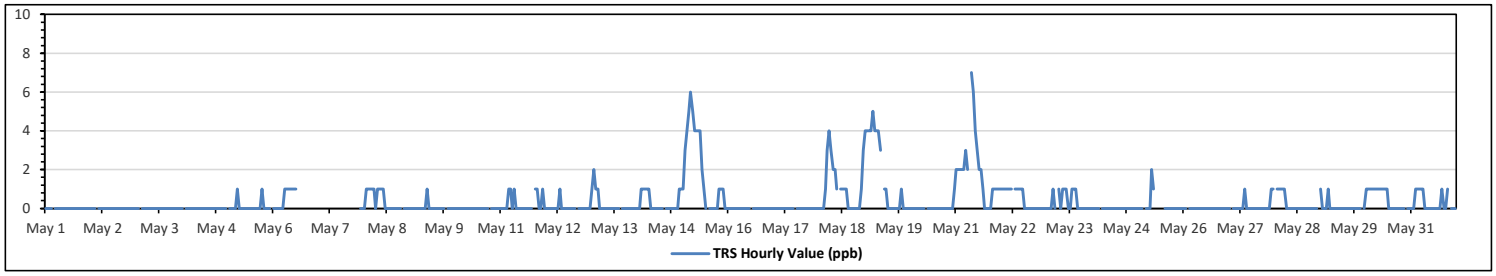
TOTAL REDUCED SULPHUR (TRS) in ppb

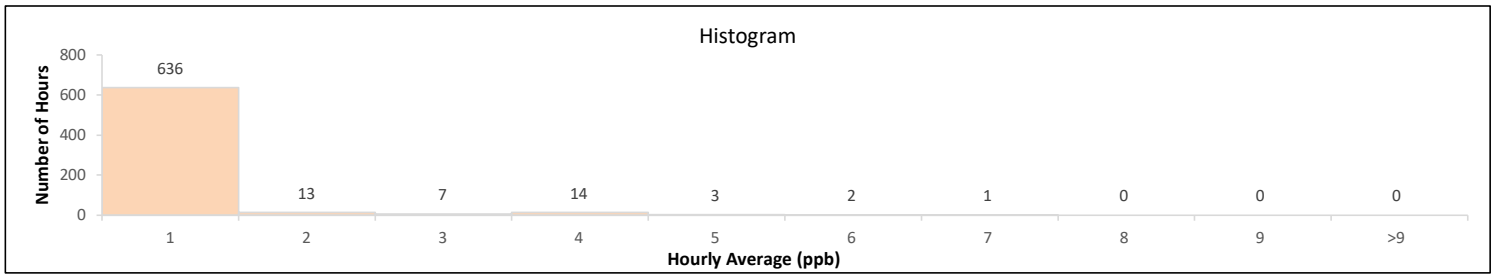
Maximum Hourly Value:	7	ppb	on May 21 at hr 8	Hours in Service:	744
Maximum Daily Value:	2.0	ppb	on May 15	Hours of Data:	676
Minimum Hourly Value:	0	ppb	on May 1 at hr 0	Hours of Missing Data:	31
Minimum Daily Value:	0.0	ppb	on May 1	Hours of Calibration:	37
Monthly Average:	0.4	ppb		Operational Uptime:	95.8

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 2	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 3	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 4	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 5	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	1	0.1
May 6	0	0	0	0	0	0	1	1	1	1	1	1	1	P	P	P	P	P	P	P	P	P	P	P	0	1	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	NRM	S	0	0	0	0	NA
May 8	0	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.4
May 9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.0
May 10	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
May 11	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	S	1	1	0	0	1	0	0	1	0.3
May 12	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.0
May 13	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	2	0.2
May 14	0	0	1	1	1	1	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	1	1	0	1	0.3
May 15	1	3	4	5	6	5	4	4	4	4	2	1	0	S	0	0	0	0	0	1	1	1	0	0	0	6	**2.0**
May 16	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 17	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 18	0	0	0	1	3	4	3	2	2	1	S	1	1	1	1	0	0	0	0	0	0	0	1	3	0	4	1.0
May 19	4	4	4	4	5	4	4	4	3	S	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	5	1.7
May 20	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.0
May 21	2	2	2	2	2	3	2	S	7	6	4	3	2	2	1	0	0	0	0	1	1	1	1	1	0	7	2.0
May 22	1	1	1	1	1	1	S	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.5
May 23	0	0	0	1	0	S	1	0	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0.3
May 24	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 25	0	0	0	S	0	0	0	2	1	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	2	0.2
May 26	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
May 27	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.1
May 28	S	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.2
May 29	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0.1
May 30	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	S	0	0	0	1	0.5
May 31	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	S	0	0	0	0	1	0.3
Diurnal Maximum	4	4	4	5	6	5	4	4	7	6	4	3	2	2	1	1	1	0	1	1	1	1	1	3			
Diurnal Average	0.4	0.5	0.6	0.7	0.9	0.8	0.6	0.6	0.8	0.6	0.4	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.3			

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.



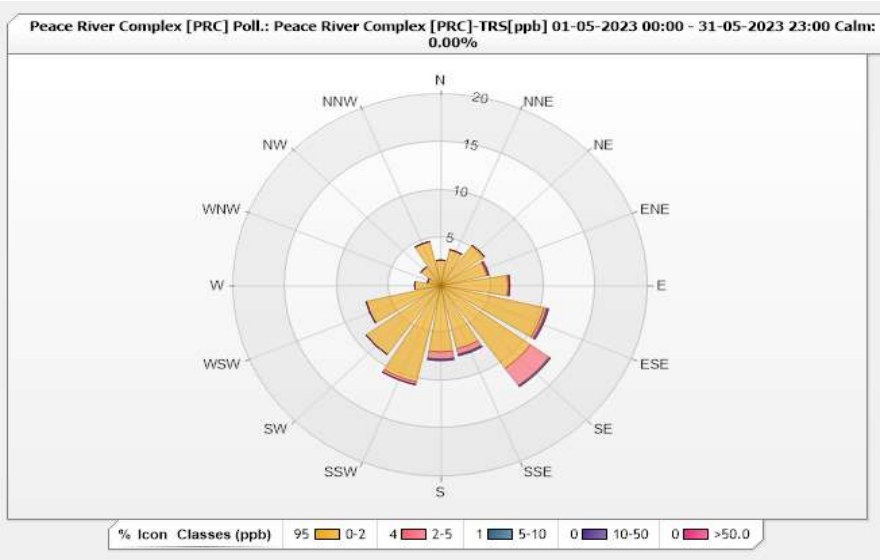


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 90.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	2.66	0	0	0	0	2.66
NNE	3.85	0	0	0	0	3.85
NE	5.18	0	0	0	0	5.18
ENE	4.59	0.15	0	0	0	4.74
E	6.51	0.15	0	0	0	6.66
ESE	10.21	0.3	0.15	0	0	10.66
SE	10.65	2.22	0.15	0	0	13.02
SSE	6.8	0.59	0.15	0	0	7.54
S	6.95	0.74	0.15	0	0	7.84
SSW	10.36	0.3	0	0	0	10.66
SW	8.88	0	0	0	0	8.88
WSW	7.4	0	0	0	0	7.4
W	2.51	0	0	0	0	2.51
WNW	1.33	0	0	0	0	1.33
NW	2.37	0	0	0	0	2.37
NNW	4.73	0	0	0	0	4.73
Summary	94.98	4.45	0.6	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

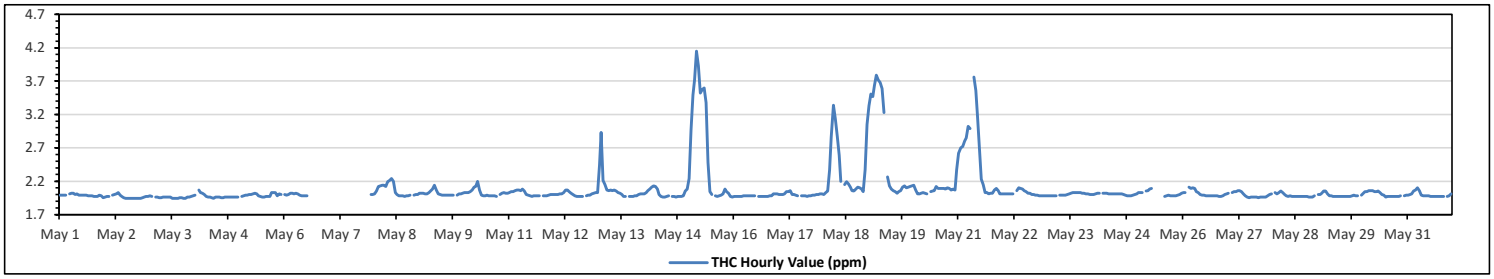
TOTAL HYDROCARBONS (THC) in ppm

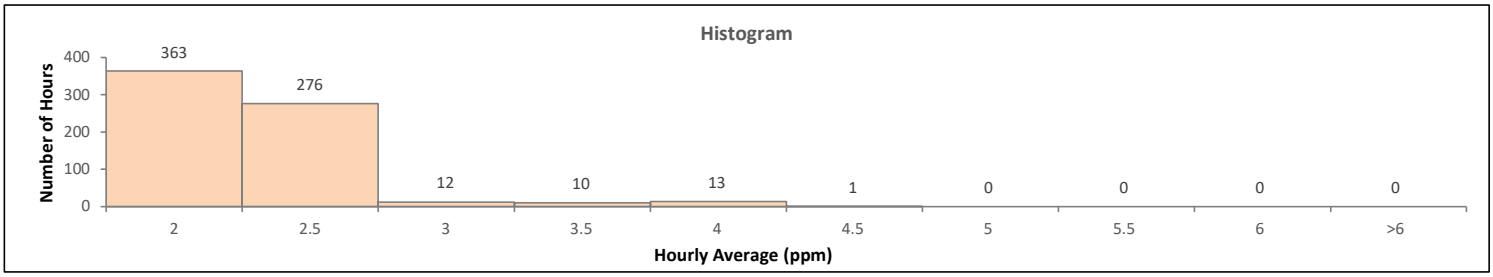
Maximum Hourly Value:	4.15	ppm	on May 15 at hr 4	Hours in Service:	744
Maximum Daily Value:	2.67	ppm	on May 19	Hours of Data:	675
Minimum Hourly Value:	1.94	ppm	on May 2 at hr 11	Hours of Missing Data:	32
Minimum Daily Value:	1.96	ppm	on May 3	Hours of Calibration:	37
Monthly Average:	2.08	ppm		Operational Uptime:	95.7

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
May 1	1.99	1.99	1.99	1.99	S	2.01	2.02	2.02	2.00	2.01	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.99	1.98	1.95	1.95	2.02	1.99
May 2	1.96	1.97	1.97	S	1.99	2.00	2.01	2.03	1.99	1.97	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.97	1.97	1.94	2.03	1.96
May 3	1.98	1.97	S	1.96	1.96	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.94	1.94	1.94	1.94	1.95	1.95	1.94	1.94	1.96	1.96	1.97	1.98	1.94	1.98	1.96
May 4	1.99	S	2.07	2.03	2.02	2.00	1.97	1.96	1.96	1.95	1.94	1.96	1.96	1.96	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.94	2.07	1.97
May 5	S	1.97	1.98	1.99	1.99	2.00	2.00	2.01	2.02	2.01	1.98	1.97	1.96	1.96	1.97	1.97	1.97	2.03	2.03	2.03	1.98	2.01	2.00	S	1.96	2.03	1.99
May 6	2.00	1.99	2.00	2.02	2.02	2.01	2.02	2.01	1.99	1.98	1.98	1.98	1.98	P	P	P	P	P	P	P	P	P	P	P	1.98	2.02	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2.01	NRM	S	2.00	2.00	2.00	2.01	NA
May 8	2.01	2.05	2.12	2.13	2.14	2.14	2.12	2.19	2.21	2.24	2.20	2.03	2.00	1.98	1.98	1.98	1.97	1.98	1.98	1.99	S	1.99	2.00	2.00	1.97	2.24	2.06
May 9	2.02	2.02	2.02	2.01	2.01	2.03	2.05	2.08	2.14	2.07	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	S	1.99	2.01	2.01	2.02	1.99	2.14	2.02
May 10	2.03	2.03	2.03	2.04	2.07	2.11	2.12	2.20	2.07	1.99	1.98	1.98	1.99	1.98	1.98	1.98	1.98	1.97	S	2.00	2.02	2.03	2.02	2.02	1.97	2.20	2.03
May 11	2.03	2.04	2.04	2.06	2.07	2.07	2.06	2.08	2.05	2.00	1.99	1.98	1.97	1.98	1.98	1.98	1.98	S	1.98	1.98	1.98	1.99	2.00	2.00	1.97	2.08	2.01
May 12	2.00	2.00	2.00	2.01	2.01	2.03	2.07	2.07	2.04	2.02	2.00	1.98	1.97	1.97	1.97	1.97	S	1.98	1.99	1.99	2.01	2.02	2.03	2.03	1.97	2.07	2.01
May 13	2.44	2.93	2.21	2.15	2.07	2.06	2.07	2.06	2.07	2.05	2.03	2.02	2.00	1.97	1.97	S	1.97	1.97	1.97	1.98	1.98	2.00	2.01	2.01	1.97	2.93	2.09
May 14	2.01	2.03	2.06	2.08	2.11	2.13	2.12	2.08	2.00	1.97	1.96	1.96	1.97	1.98	S	1.97	1.97	1.96	1.97	1.97	1.97	1.98	2.05	2.08	1.96	2.13	2.02
May 15	2.24	2.97	3.49	3.72	4.15	3.93	3.52	3.57	3.60	3.38	2.48	2.04	2.00	S	1.98	1.97	1.98	1.99	2.01	2.08	2.04	2.02	1.97	1.96	1.96	4.15	2.66
May 16	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	2.01	2.01	2.01	1.97	2.01	1.98
May 17	2.00	2.00	2.00	2.01	2.04	2.04	2.06	2.00	2.00	1.99	1.98	S	1.98	1.98	1.98	1.97	1.98	1.98	1.99	1.99	2.00	2.00	2.01	2.01	1.97	2.06	2.00
May 18	2.00	2.03	2.05	2.37	2.86	3.34	3.13	2.87	2.59	2.20	S	2.15	2.19	2.16	2.11	2.06	2.05	2.08	2.11	2.10	2.08	2.04	2.37	3.05	2.00	3.34	2.35
May 19	3.33	3.51	3.47	3.63	3.79	3.72	3.68	3.59	3.23	S	2.26	2.13	2.08	2.06	2.04	2.02	2.04	2.06	2.11	2.13	2.10	2.11	2.12	2.13	2.02	3.79	2.67
May 20	2.14	2.07	2.01	2.01	2.02	2.03	2.02	2.01	S	2.04	2.05	2.06	2.12	2.09	2.09	2.09	2.09	2.08	2.10	2.09	2.07	2.08	2.07	2.37	2.01	2.37	2.08
May 21	2.62	2.70	2.72	2.80	2.85	3.02	2.99	S	3.76	3.56	3.19	2.71	2.23	2.15	2.03	2.03	2.01	2.02	2.02	2.07	2.09	2.06	2.01	2.01	2.01	3.76	2.51
May 22	2.01	2.01	2.01	2.01	2.01	2.01	S	2.06	2.10	2.09	2.08	2.06	2.04	2.02	2.02	2.00	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	2.10	2.02
May 23	1.98	1.98	1.98	1.98	1.98	S	1.99	1.99	1.99	1.99	2.00	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	1.98	2.03	2.00
May 24	2.00	2.01	2.02	2.02	S	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	1.99	1.98	1.98	1.98	1.99	2.00	2.01	1.98	2.02	2.01
May 25	2.03	2.03	2.03	S	2.05	2.06	2.08	2.09	Y	C	C	C	C	C	1.97	1.98	1.99	1.98	1.98	1.98	1.98	1.99	2.00	2.02	1.97	2.09	NA
May 26	2.03	2.03	S	2.11	2.09	2.10	2.09	2.04	2.03	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.98	2.00	2.01	1.97	2.11	2.01
May 27	2.02	S	2.03	2.04	2.04	2.06	2.06	2.04	2.01	1.98	1.96	1.95	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.98	2.00	2.01	1.95	2.06	1.99
May 28	S	2.03	2.01	2.03	2.05	2.03	2.00	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.98	S	1.96	2.05	1.99
May 29	2.00	2.00	2.02	2.05	2.05	2.01	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.98	1.98	S	1.99	1.97	2.05	1.99
May 30	2.02	2.04	2.04	2.06	2.06	2.06	2.04	2.04	2.05	2.03	2.00	1.99	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	S	1.98	1.99	1.96	2.06	2.01
May 31	1.99	2.00	2.01	2.05	2.07	2.10	2.06	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	1.97	1.98	2.01	1.97	2.10	2.00
Diurnal Maximum	3.33	3.51	3.49	3.72	4.15	3.93	3.68	3.59	3.76	3.56	3.19	2.71	2.23	2.16	2.11	2.09	2.09	2.08	2.11	2.13	2.10	2.11	2.37	3.05			
Diurnal Average	2.10	2.16	2.16	2.19	2.23	2.24	2.22	2.17	2.21	2.12	2.07	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.02	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.



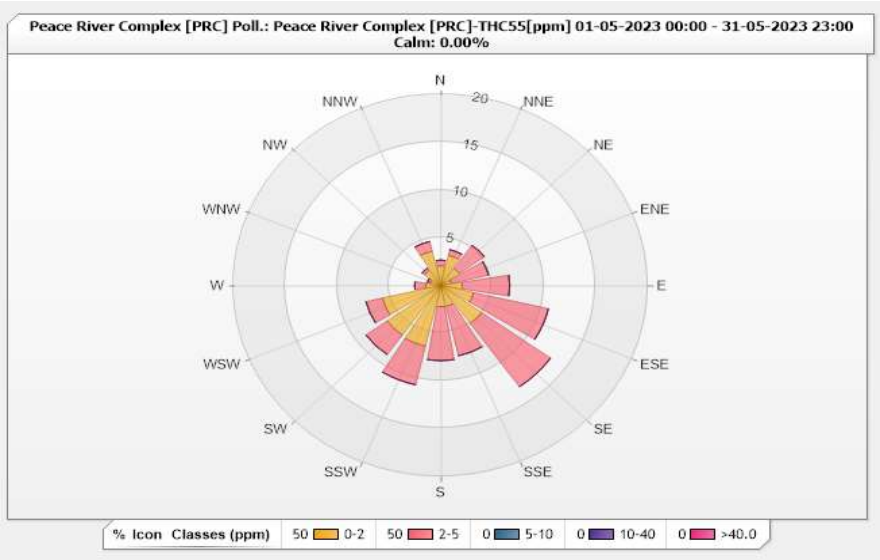


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 90.73% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.07	0.59	0	0	0	2.66
NNE	3.26	0.59	0	0	0	3.85
NE	2.22	2.96	0	0	0	5.18
ENE	1.04	3.7	0	0	0	4.74
E	2.07	4.59	0	0	0	6.66
ESE	3.26	7.41	0	0	0	10.67
SE	4.89	8.15	0	0	0	13.04
SSE	2.22	5.33	0	0	0	7.55
S	2.22	5.63	0	0	0	7.85
SSW	6.52	4.15	0	0	0	10.67
SW	6.37	2.52	0	0	0	8.89
WSW	5.78	1.63	0	0	0	7.41
W	1.48	1.04	0	0	0	2.52
WNW	1.04	0.3	0	0	0	1.34
NW	1.93	0.3	0	0	0	2.23
NNW	3.7	1.04	0	0	0	4.74
Summary	50.07	49.93	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

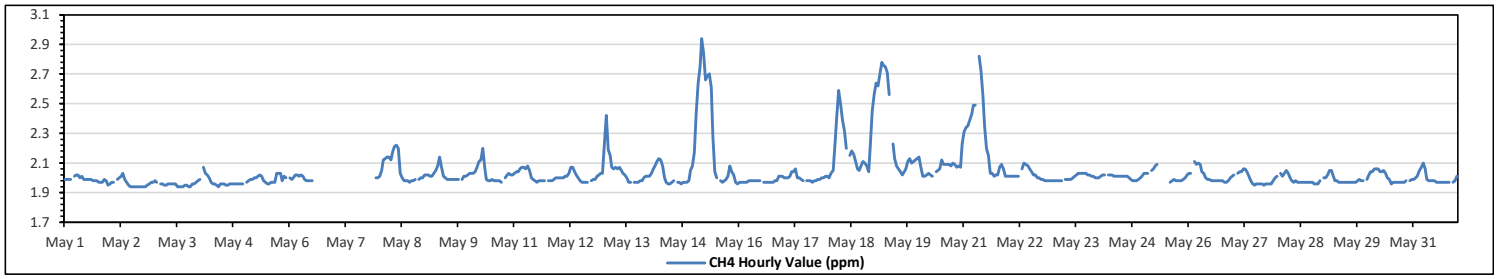
METHANE (CH4) in ppm

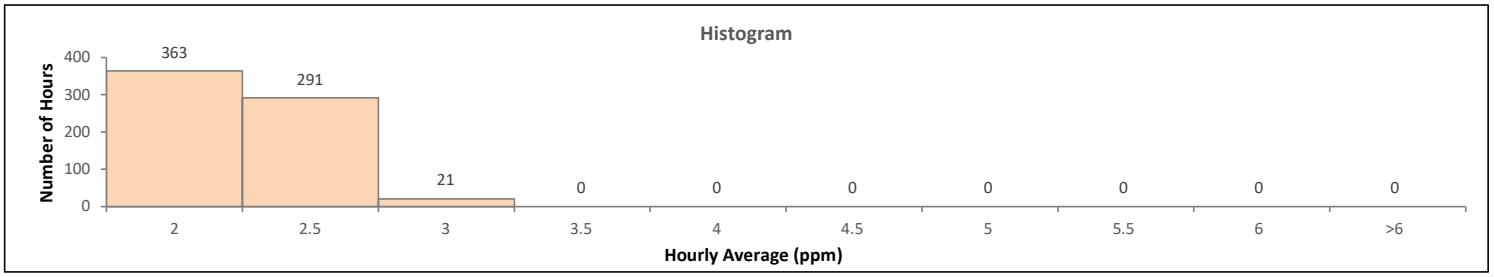
Maximum Hourly Value:	2.94	ppm	on May 15 at hr 4	Hours in Service:	744
Maximum Daily Value:	2.32	ppm	on May 19	Hours of Data:	675
Minimum Hourly Value:	1.94	ppm	on May 2 at hr 11	Hours of Missing Data:	32
Minimum Daily Value:	1.96	ppm	on May 3	Hours of Calibration:	37
Monthly Average:	2.04	ppm		Operational Uptime:	95.7

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
May 1	1.99	1.99	1.99	1.99	S	2.01	2.02	2.02	2.00	2.01	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.99	1.98	1.95	1.95	2.02	1.99
May 2	1.96	1.97	1.97	S	1.99	2.00	2.01	2.03	1.99	1.97	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.97	1.97	1.94	2.03	1.96
May 3	1.98	1.97	S	1.96	1.96	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.94	1.94	1.94	1.94	1.95	1.95	1.94	1.94	1.96	1.96	1.97	1.98	1.94	1.98	1.96
May 4	1.99	S	2.07	2.03	2.02	2.00	1.97	1.96	1.96	1.95	1.94	1.96	1.96	1.96	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.94	2.07	1.97
May 5	S	1.97	1.98	1.99	1.99	2.00	2.00	2.01	2.02	2.01	1.98	1.97	1.96	1.96	1.97	1.97	1.97	2.03	2.03	2.03	1.98	2.01	2.00	S	1.96	2.03	1.99
May 6	2.00	1.99	2.00	2.02	2.02	2.01	2.02	2.01	1.99	1.98	1.98	1.98	1.98	P	P	P	P	P	P	P	P	P	P	P	1.98	2.02	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2.01	NRM	S	2.00	2.00	2.00	2.01	NA
May 8	2.01	2.05	2.12	2.13	2.14	2.14	2.12	2.18	2.21	2.22	2.20	2.03	2.00	1.98	1.98	1.98	1.97	1.98	1.98	1.99	S	1.99	2.00	2.00	1.97	2.22	2.06
May 9	2.02	2.02	2.02	2.01	2.01	2.03	2.05	2.08	2.14	2.07	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	S	1.99	2.01	2.01	2.02	1.99	2.14	2.02
May 10	2.03	2.03	2.03	2.04	2.07	2.11	2.12	2.20	2.07	1.99	1.98	1.98	1.99	1.98	1.98	1.98	1.98	1.97	S	2.00	2.02	2.03	2.02	2.02	1.97	2.20	2.03
May 11	2.03	2.04	2.04	2.06	2.07	2.07	2.06	2.08	2.05	2.00	1.99	1.98	1.97	1.98	1.98	1.98	1.98	S	1.98	1.98	1.98	1.99	2.00	2.00	1.97	2.08	2.01
May 12	2.00	2.00	2.00	2.01	2.01	2.03	2.07	2.07	2.04	2.02	2.00	1.98	1.97	1.97	1.97	1.97	S	1.98	1.99	1.99	2.01	2.02	2.03	2.03	1.97	2.07	2.01
May 13	2.23	2.42	2.19	2.15	2.07	2.06	2.07	2.06	2.07	2.05	2.03	2.02	2.00	1.97	1.97	S	1.97	1.97	1.97	1.98	1.98	2.00	2.01	2.01	1.97	2.42	2.05
May 14	2.01	2.03	2.06	2.08	2.11	2.13	2.12	2.08	2.00	1.97	1.96	1.96	1.97	1.98	S	1.97	1.97	1.96	1.97	1.97	1.97	1.98	2.05	2.08	1.96	2.13	2.02
May 15	2.17	2.44	2.64	2.75	2.94	2.84	2.66	2.69	2.70	2.61	2.28	2.04	2.00	S	1.98	1.97	1.98	1.99	2.01	2.08	2.04	2.02	1.97	1.96	1.96	2.94	2.29
May 16	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	2.01	2.01	2.01	1.97	2.01	1.98
May 17	2.00	2.00	2.00	2.01	2.04	2.04	2.06	2.00	2.00	1.99	1.98	S	1.98	1.98	1.98	1.97	1.98	1.98	1.99	1.99	2.00	2.00	2.01	2.01	1.97	2.06	2.00
May 18	2.00	2.03	2.05	2.24	2.41	2.59	2.50	2.39	2.32	2.20	S	2.15	2.18	2.16	2.11	2.06	2.05	2.08	2.11	2.10	2.08	2.04	2.22	2.45	2.00	2.59	2.20
May 19	2.56	2.64	2.62	2.70	2.78	2.76	2.75	2.71	2.56	S	2.23	2.13	2.08	2.06	2.04	2.02	2.04	2.06	2.11	2.13	2.10	2.11	2.12	2.13	2.02	2.78	2.32
May 20	2.14	2.07	2.01	2.01	2.02	2.03	2.02	2.01	S	2.04	2.05	2.06	2.12	2.09	2.09	2.09	2.09	2.08	2.10	2.09	2.07	2.08	2.07	2.23	2.01	2.23	2.07
May 21	2.31	2.34	2.35	2.39	2.43	2.49	2.49	S	2.82	2.72	2.55	2.35	2.20	2.15	2.03	2.03	2.01	2.02	2.02	2.07	2.09	2.06	2.01	2.01	2.01	2.82	2.26
May 22	2.01	2.01	2.01	2.01	2.01	2.01	S	2.06	2.10	2.09	2.08	2.06	2.04	2.02	2.02	2.00	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	2.10	2.02
May 23	1.98	1.98	1.98	1.98	1.98	S	1.99	1.99	1.99	1.99	2.00	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	1.98	2.03	2.00
May 24	2.00	2.01	2.02	2.02	S	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	1.99	1.98	1.98	1.98	1.99	2.00	2.01	1.98	2.02	2.01
May 25	2.03	2.03	2.03	S	2.05	2.06	2.08	2.09	Y	C	C	C	C	C	1.97	1.98	1.99	1.98	1.98	1.98	1.98	1.99	2.00	2.02	1.97	2.09	NA
May 26	2.03	2.03	S	2.11	2.09	2.10	2.09	2.04	2.03	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.98	2.00	2.01	1.97	2.11	2.01
May 27	2.02	S	2.03	2.04	2.04	2.06	2.06	2.04	2.01	1.98	1.96	1.95	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.98	2.00	2.01	1.95	2.06	1.99
May 28	S	2.03	2.01	2.03	2.05	2.03	2.00	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.98	S	1.96	2.05	1.99
May 29	2.00	2.00	2.02	2.05	2.05	2.01	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.98	1.98	S	1.99	1.97	2.05	1.99
May 30	2.02	2.04	2.04	2.06	2.06	2.06	2.04	2.04	2.05	2.03	2.00	1.99	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	S	1.98	1.99	1.96	2.06	2.01
May 31	1.99	2.00	2.01	2.05	2.07	2.10	2.06	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	1.97	1.98	2.01	1.97	2.10	2.00
Diurnal Maximum	2.56	2.64	2.64	2.75	2.94	2.84	2.75	2.71	2.82	2.72	2.55	2.35	2.20	2.16	2.11	2.09	2.09	2.08	2.11	2.13	2.10	2.11	2.22	2.45			
Diurnal Average	2.05	2.08	2.08	2.10	2.12	2.13	2.12	2.09	2.11	2.06	2.04	2.01	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.01	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.



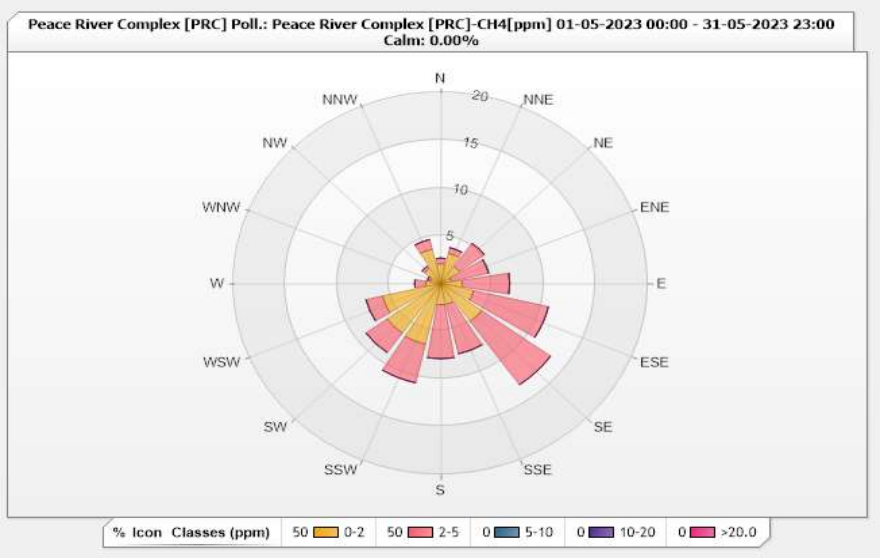


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 90.73% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.07	0.59	0	0	0	2.66
NNE	3.26	0.59	0	0	0	3.85
NE	2.22	2.96	0	0	0	5.18
ENE	1.04	3.7	0	0	0	4.74
E	2.07	4.59	0	0	0	6.66
ESE	3.26	7.41	0	0	0	10.67
SE	4.89	8.15	0	0	0	13.04
SSE	2.22	5.33	0	0	0	7.55
S	2.22	5.63	0	0	0	7.85
SSW	6.52	4.15	0	0	0	10.67
SW	6.37	2.52	0	0	0	8.89
WSW	5.78	1.63	0	0	0	7.41
W	1.48	1.04	0	0	0	2.52
WNW	1.04	0.3	0	0	0	1.34
NW	1.93	0.3	0	0	0	2.23
NNW	3.7	1.04	0	0	0	4.74
Summary	50.07	49.93	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

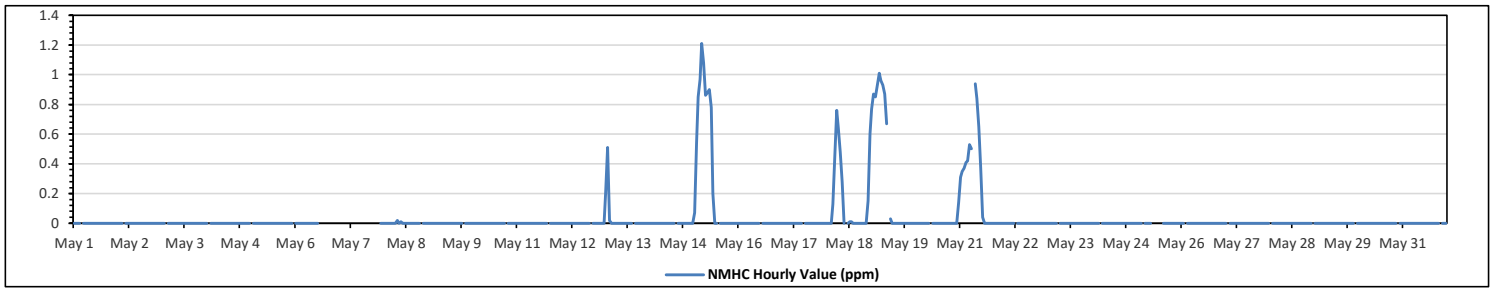
NON-METHANE HYDROCARBONS (NMHC) in ppm

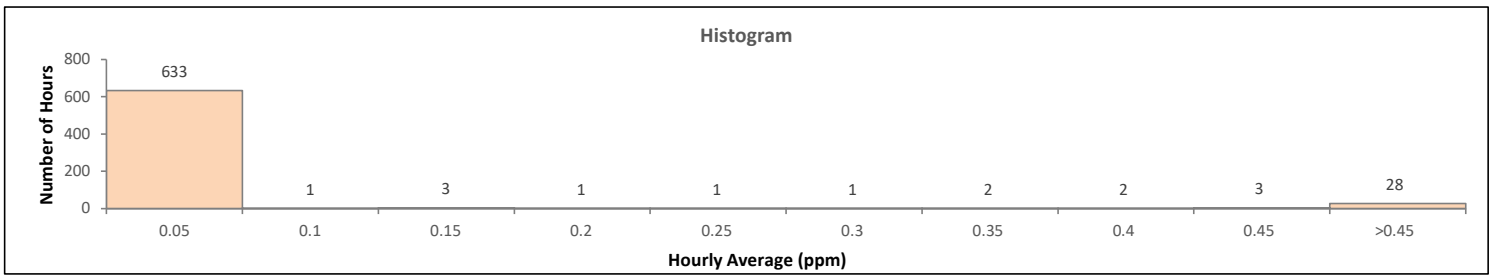
Maximum Hourly Value:	1.21	ppm	on May 15 at hr 4	Hours in Service:	744	
Maximum Daily Value:	0.36	ppm	on May 15	Hours of Data:	675	
Minimum Hourly Value:	0.00	ppm	on May 1 at hr 0	Hours of Missing Data:	32	
Minimum Daily Value:	0.00	ppm	on May 1	Hours of Calibration:	37	
Monthly Average:	0.04	ppm		Operational Uptime:	95.7	

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
May 1	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 2	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 3	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 4	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 5	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
May 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	P	P	P	P	P	P	P	P	P	P	P	0.00	0.00	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0.00	NRM	S	0.00	0.00	0.00	0.00	NA
May 8	0.00	0.00	0.00	0.00	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	S	0.00	0.00	0.00	0.00	0.02	0.00
May 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 13	0.21	0.51	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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.03
May 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 15	0.07	0.54	0.85	0.97	**1.21**	1.08	0.86	0.88	0.90	0.78	0.20	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**1.21**	**0.36**
May 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 18	0.00	0.00	0.00	0.13	0.45	0.76	0.64	0.48	0.28	0.00	S	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.60	0.00	0.76	0.15
May 19	0.77	0.87	0.85	0.93	1.01	0.96	0.93	0.87	0.67	S	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.34
May 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.14	0.01
May 21	0.31	0.35	0.37	0.41	0.42	0.53	0.50	S	0.94	0.84	0.65	0.37	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.25
May 22	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 23	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 24	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 25	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	Y	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
May 26	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 27	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 28	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
May 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.77	0.87	0.85	0.97	1.21	1.08	0.93	0.88	0.94	0.84	0.65	0.37	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.60			
Diurnal Average	0.05	0.08	0.07	0.09	0.11	0.11	0.10	0.08	0.10	0.06	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03			

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.



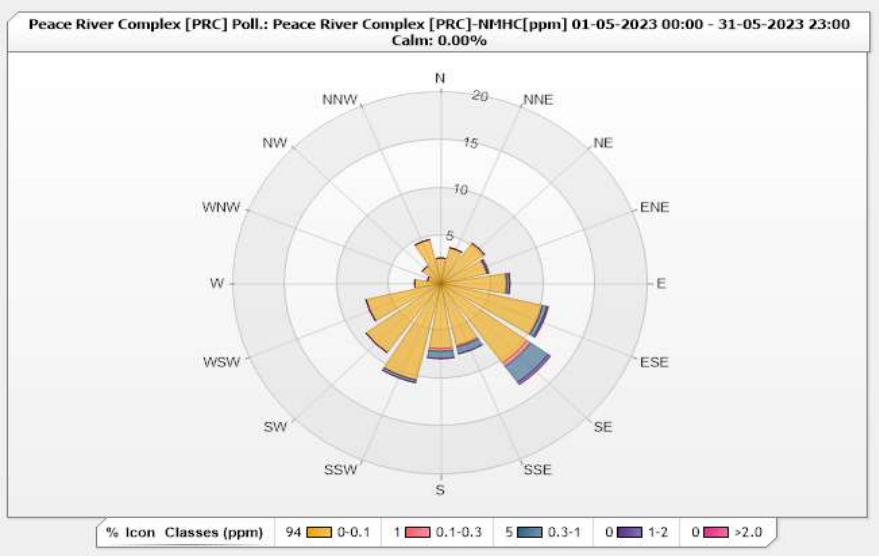


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 90.73% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	2.67	0	0	0	0	2.67
NNE	3.85	0	0	0	0	3.85
NE	5.19	0	0	0	0	5.19
ENE	4.59	0	0.15	0	0	4.74
E	6.37	0	0.3	0	0	6.67
ESE	10.07	0	0.44	0.15	0	10.66
SE	10.22	0.44	2.07	0.3	0	13.03
SSE	6.67	0.15	0.74	0	0	7.56
S	6.81	0.3	0.74	0	0	7.85
SSW	10.37	0	0.3	0	0	10.67
SW	8.89	0	0	0	0	8.89
WSW	7.41	0	0	0	0	7.41
W	2.52	0	0	0	0	2.52
WNW	1.33	0	0	0	0	1.33
NW	2.22	0	0	0	0	2.22
NNW	4.74	0	0	0	0	4.74
Summary	93.92	0.89	4.74	0.45	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

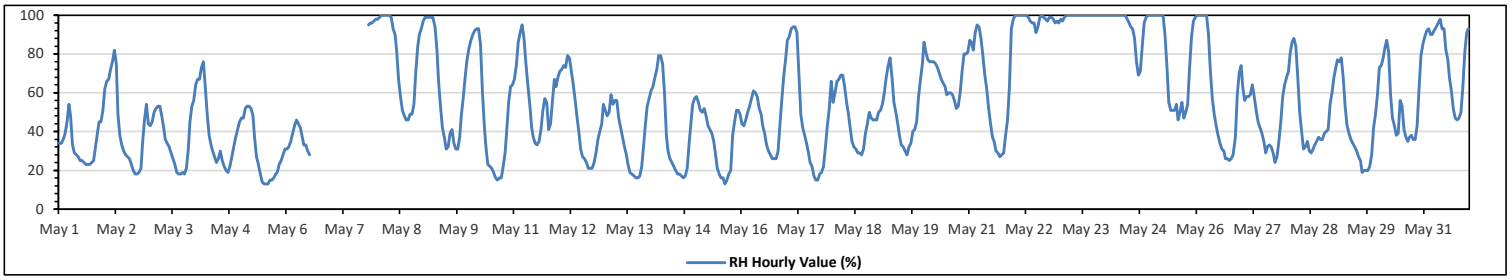
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on May 8 at hr 2	Hours in Service:	744	
Maximum Daily Value:	99.8	%	on May 23	Hours of Data:	714	
Minimum Hourly Value:	13	%	on May 5 at hr 12	Hours of Missing Data:	30	
Minimum Daily Value:	29.2	%	on May 5	Hours of Calibration:	0	
Monthly Average:	55.5	%		Operational Uptime:	96.0	

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
May 1	34	34	36	39	45	54	48	33	29	28	27	25	25	24	23	23	23	24	25	31	38	45	45	51	23	54	33.7
May 2	62	66	67	72	76	82	75	49	38	33	30	28	27	26	23	20	18	18	19	21	34	46	54	44	18	82	42.8
May 3	43	45	50	52	53	53	48	42	36	34	32	29	26	23	19	18	18	19	18	21	31	45	53	56	18	56	36.0
May 4	64	67	67	73	76	63	49	38	33	30	27	24	26	30	25	22	20	19	22	27	32	37	41	45	19	76	39.9
May 5	47	47	52	53	53	52	48	37	27	23	18	14	**13**	**13**	**13**	15	15	16	18	19	23	25	28	31	**13**	53	**29.2**
May 6	31	32	35	39	43	46	44	42	38	33	33	30	28	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	28	46	NA
May 7	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	95	96	96	97	98	95	98	NA
May 8	98	99	**100**	**100**	**100**	**100**	**100**	99	93	90	82	67	58	51	48	46	46	49	49	54	71	84	90	93	46	**100**	77.8
May 9	97	99	99	99	99	99	94	82	66	53	42	37	31	32	39	41	34	31	31	37	48	57	68	77	31	99	62.2
May 10	83	87	90	92	93	93	85	61	43	32	23	22	21	19	16	15	16	16	22	29	43	55	63	64	15	93	49.3
May 11	67	74	86	91	95	88	75	64	54	42	37	34	33	35	41	51	57	55	41	44	56	67	63	68	33	95	59.1
May 12	71	72	74	73	79	78	71	64	56	47	39	31	27	26	24	21	21	21	24	29	36	40	44	54	21	79	46.8
May 13	51	48	50	59	54	56	56	47	42	37	32	28	23	19	18	17	16	16	17	22	33	43	53	57	16	59	37.3
May 14	61	63	68	72	79	79	75	60	38	30	26	24	22	20	18	18	17	16	17	21	34	45	54	57	16	79	42.3
May 15	58	55	51	50	52	48	43	41	39	35	29	21	18	16	16	**13**	15	18	20	38	45	51	51	49	**13**	58	36.3
May 16	44	43	46	50	53	57	61	60	58	52	49	43	39	33	30	28	26	26	26	30	44	57	69	78	26	78	45.9
May 17	87	89	93	94	94	91	70	49	42	38	34	29	24	22	17	15	15	18	19	22	32	43	52	66	15	94	48.1
May 18	55	60	66	67	69	69	63	55	49	41	35	32	31	29	29	28	31	39	44	50	47	46	46	46	28	69	47.0
May 19	50	51	54	60	68	74	78	68	55	50	44	38	33	32	30	28	32	34	40	41	45	58	67	75	28	78	50.2
May 20	86	81	77	76	76	76	75	73	70	67	65	63	59	60	60	59	56	52	53	60	71	80	80	81	52	86	69.0
May 21	87	86	82	91	95	94	88	79	69	62	52	44	37	35	30	29	27	28	29	38	46	63	93	98	27	98	61.8
May 22	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	97	96	96	91	94	99	**100**	99	98	97	99	99	98	96	97	96	91	**100**	98.0
May 23	98	97	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	97	**100**	**99.8**
May 24	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	96	94	93	88	76	69	71	84	96	99	**100**	**100**	69	**100**	94.3
May 25	**100**	**100**	**100**	**100**	**100**	**100**	**100**	90	74	55	51	51	51	54	46	50	55	47	50	54	73	89	97	99	46	**100**	74.4
May 26	**100**	**100**	**100**	**100**	**100**	**100**	90	71	57	49	43	38	34	31	30	26	26	25	26	28	37	59	70	74	25	**100**	58.9
May 27	63	56	58	58	59	64	58	51	45	42	39	35	29	32	33	32	29	24	27	35	45	58	64	68	24	68	46.0
May 28	71	80	86	88	84	68	50	40	31	32	35	30	29	31	33	35	37	36	36	39	40	41	54	60	29	88	48.6
May 29	68	73	77	76	78	68	53	43	39	36	34	32	30	27	25	19	20	20	20	22	28	42	49	59	19	78	43.3
May 30	73	74	78	83	87	81	59	47	43	38	39	56	53	41	37	35	37	38	36	36	43	62	79	85	35	87	55.8
May 31	89	92	93	90	90	92	94	96	98	93	93	82	77	68	61	52	47	46	47	50	63	81	91	93	46	98	78.3
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
Diurnal Average	71.3	72.3	74.5	76.6	78.3	77.5	71.7	62.7	55.3	49.9	46.2	42.5	39.8	38.7	37.1	36.0	35.4	35.1	36.1	42.5	50.9	60.3	67.1	70.7			

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

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



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

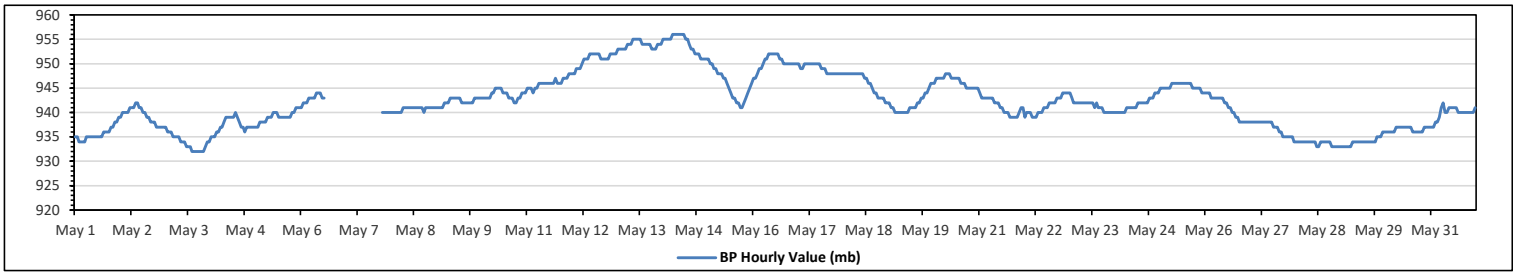
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	956	mb	on May 14 at hr 5	Hours in Service:	744	
Maximum Daily Value:	954	mb	on May 14	Hours of Data:	714	
Minimum Hourly Value:	932	mb	on May 3 at hr 14	Hours of Missing Data:	30	
Minimum Daily Value:	934	mb	on May 28	Hours of Calibration:	0	
Monthly Average:	942	mb		Operational Uptime:	96.0	

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
May 1	935	935	934	934	934	934	935	935	935	935	935	935	935	935	935	936	936	936	936	937	937	938	938	939	934	939	936
May 2	939	940	940	940	940	941	941	941	942	942	941	941	940	940	939	939	938	938	938	937	937	937	937	937	937	942	939
May 3	937	936	936	936	935	935	935	935	934	934	934	933	933	933	**932**	**932**	**932**	**932**	**932**	**932**	**932**	933	934	934	**932**	937	934
May 4	935	935	935	936	936	937	937	938	939	939	939	939	939	940	939	938	937	937	936	937	937	937	937	937	935	940	937
May 5	937	937	938	938	938	938	939	939	939	940	940	940	939	939	939	939	939	939	939	940	940	941	941	941	937	941	939
May 6	941	942	942	942	943	943	943	943	944	944	944	943	943	P	P	P	P	P	P	P	P	P	P	P	941	944	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	940	940	940	940	940	940	940	NA
May 8	940	940	940	940	940	940	941	941	941	941	941	941	941	941	941	941	941	940	941	941	941	941	941	941	940	941	941
May 9	941	941	941	941	942	942	942	943	943	943	943	943	943	942	942	942	942	942	942	942	943	943	943	943	941	943	942
May 10	943	943	943	943	943	944	944	945	945	945	945	944	944	944	943	943	943	942	942	943	943	944	944	944	942	945	944
May 11	945	945	945	944	945	945	946	946	946	946	946	946	946	946	946	947	946	946	946	947	947	947	948	948	944	948	946
May 12	948	948	949	949	949	950	951	951	951	952	952	952	952	952	952	951	951	951	951	951	952	952	952	952	948	952	951
May 13	953	953	953	953	953	954	954	954	955	955	955	955	955	954	954	954	954	954	953	953	953	954	954	954	953	955	954
May 14	955	955	955	955	955	**956**	**956**	**956**	**956**	**956**	**956**	**956**	955	955	954	953	953	952	952	952	951	951	951	951	951	**956**	**954**
May 15	951	950	950	949	949	948	948	948	947	947	946	945	944	943	943	942	942	941	941	942	943	944	945	946	941	951	946
May 16	947	947	948	949	949	950	951	951	952	952	952	952	952	952	951	951	950	950	950	950	950	950	950	950	947	952	950
May 17	950	949	949	950	950	950	950	950	950	950	950	950	949	949	949	948	948	948	948	948	948	948	948	948	948	950	949
May 18	948	948	948	948	948	948	948	948	948	948	948	947	947	946	946	945	944	944	943	943	943	943	942	942	942	948	946
May 19	942	941	941	940	940	940	940	940	940	940	940	941	941	941	941	942	942	943	943	944	944	945	946	946	940	946	942
May 20	946	947	947	947	947	947	948	948	948	947	947	947	947	947	946	946	946	945	945	945	945	945	945	945	945	948	946
May 21	944	943	943	943	943	943	943	943	942	942	942	941	941	940	940	940	939	939	939	939	939	940	941	941	939	944	941
May 22	939	940	940	940	939	939	939	940	940	940	941	941	941	942	942	942	942	943	943	943	944	944	944	944	939	944	941
May 23	944	943	942	942	942	942	942	942	942	942	942	942	942	941	942	941	941	941	940	940	940	940	940	940	940	944	941
May 24	940	940	940	940	940	940	941	941	941	941	941	941	942	942	942	942	942	942	943	943	943	944	944	944	940	944	942
May 25	945	945	945	945	945	945	946	946	946	946	946	946	946	946	946	946	946	945	945	945	945	945	944	944	944	946	945
May 26	944	944	944	943	943	943	943	943	943	943	942	942	941	941	940	940	939	939	938	938	938	938	938	938	938	944	941
May 27	938	938	938	938	938	938	938	938	938	938	938	938	937	937	937	936	936	935	935	935	935	935	935	934	934	938	937
May 28	934	934	934	934	934	934	934	934	934	934	934	933	933	934	934	934	934	934	934	933	933	933	933	933	933	934	**934**
May 29	933	933	933	933	933	933	934	934	934	934	934	934	934	934	934	934	934	934	934	935	935	935	936	936	933	936	934
May 30	936	936	936	936	936	937	937	937	937	937	937	937	937	937	936	936	936	936	936	936	937	937	937	937	936	937	937
May 31	937	937	938	938	939	941	942	940	940	941	941	941	941	941	940	940	940	940	940	940	940	940	940	941	937	942	940
Diurnal Maximum	955	955	955	955	955	956	956	956	956	956	956	956	955	955	954	954	954	954	953	953	953	954	954	954			
Diurnal Average	942	942	942	942	942	943	943	943	943	943	943	943	943	943	942	942	942	942	942	942	942	942	942	942			

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 - May 2023

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

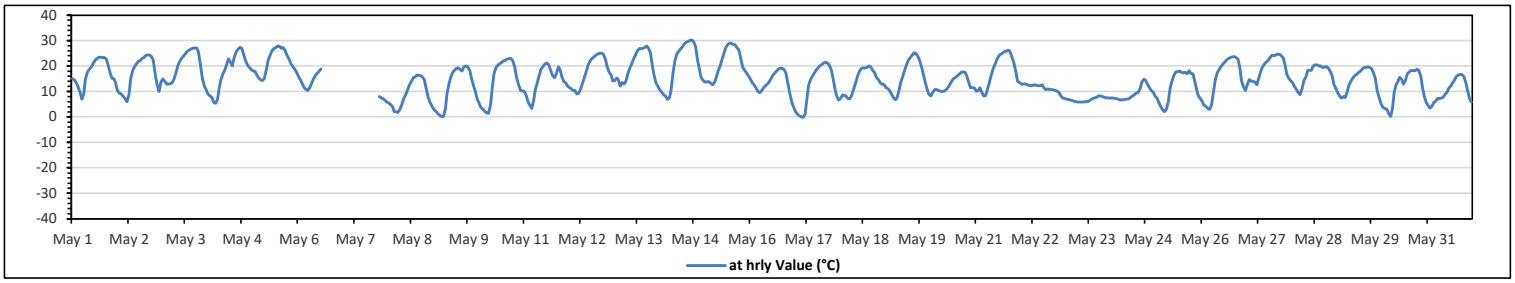
Maximum Hourly Value:	30.3	°C	on May 14 at hr 17	Hours in Service:	744	
Maximum Daily Value:	21.6	°C	on May 5	Hours of Data:	714	
Minimum Hourly Value:	-0.2	°C	on May 17 at hr 4	Hours of Missing Data:	30	
Minimum Daily Value:	6.9	°C	on May 23	Hours of Calibration:	0	
Monthly Average:	14.8	°C		Operational Uptime:	96.0	

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
May 1	15.1	14.6	13.5	11.9	9.7	7	9.2	14.7	17.6	18.7	19.6	21	22.3	22.9	23.5	23.5	23.4	23.4	22.8	20.5	17.4	15.2	15	13.5	7.0	23.5	17.3
May 2	10.4	9.4	9	8.1	7.2	6	8.7	15.4	18.3	19.9	21	21.8	22.1	22.9	23.4	24	24.4	24.3	23.9	22.4	17	12.7	10	13.6	6.0	24.4	16.5
May 3	14.9	14.1	13	12.9	13.1	13.4	14.9	17.4	20.2	21.5	22.9	23.9	24.8	25.7	26.2	26.7	27	27.1	27.1	25.6	21.1	15.6	12.4	10.8	10.8	27.1	19.7
May 4	9.1	8.2	7.8	5.7	5.3	7	11.3	14.8	17.1	18.6	20.9	22.8	21.6	20.1	23.3	25.4	26.6	27.4	26.9	24.3	22	20.3	19.3	18.7	5.3	27.4	17.7
May 5	18.1	17.9	16.4	15.4	14.6	14.3	15.1	18.4	22.3	24.2	26	26.9	27.3	27.9	27.8	27	27.3	26.1	24.2	22.8	21	19.9	18.8	17.5	14.3	27.9	**21.6**
May 6	16.1	14.7	13.3	11.7	10.9	10.5	11.5	13	14.7	16.2	17.1	18	18.8	P	P	P	P	P	P	P	P	P	P	P	10.5	18.8	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	7.9	7.6	7.1	6.6	5.9	5.9	7.9	NA
May 8	5.5	4.9	3.9	2.1	2	1.8	2.9	5	7.3	8.8	10.8	12.7	14.1	15.4	15.9	16.4	16.4	16.1	15.8	14.6	11.1	7.8	5.8	4.2	1.8	16.4	9.2
May 9	2.9	2.2	1.3	0.7	0.1	0.2	3.1	9.2	13	15.7	17.5	18.3	19.1	19.3	18.7	18.1	19.7	20.1	19.7	18.3	14.9	12.2	9.9	7.3	0.1	20.1	11.7
May 10	5.5	3.8	3.1	2.2	1.6	1.5	4.8	12	17.1	19.5	20.3	21	21.4	22.1	22.3	22.7	22.9	22.9	22	19.5	15.2	12.5	10.4	10.3	1.5	22.9	14.0
May 11	10	8.2	5.8	4.6	3.4	6.6	10.6	13.4	16.3	18.8	19.9	20.8	21.2	20.4	18.4	16.3	15.5	17.1	19.8	18.7	15.8	13.9	13.4	12.1	3.4	21.2	14.2
May 12	11.5	11	10.4	10.4	9	9.4	11.2	13.4	15.8	18.2	20.4	21.9	22.9	23.6	24.2	24.7	25	25.1	24.6	22.7	19.6	17.6	16.4	14.2	9.0	25.1	17.6
May 13	14.3	15.3	14.7	12.1	13.5	13	14	17	19.1	20.9	22.7	24.4	26	26.8	26.8	27	27.3	27.9	27	25.1	20.7	16.4	13.4	12	12.0	27.9	19.9
May 14	10.6	9.7	8.8	8.1	6.9	7.5	10.5	17	22	24.7	25.7	26.7	27.6	28.7	29.4	29.8	30.2	**30.3**	29.5	27.6	22.3	18.7	15.6	14.4	6.9	**30.3**	20.1
May 15	13.6	13.8	13.9	13.3	12.6	13.5	15.8	18.4	20.2	22.8	25.3	27.2	28.3	29	29	28.5	28.3	27.3	26.4	23	19.6	18.3	17.3	16.2	12.6	29.0	20.9
May 16	14.9	13.4	12.8	11.5	10.1	9.5	10.3	11.4	12.2	12.9	13.6	14.9	16.3	17.2	18.1	18.8	19.2	19.1	18.7	17.3	13.4	9.3	6	4	4.0	19.2	13.5
May 17	2.1	1.1	0.4	0.1	**-0.2**	1	7.5	12.4	14.6	16	17.1	18.3	19.2	20	20.6	21.2	21.4	21.2	20.3	18.5	14.8	10.6	8.1	6.6	**-0.2**	21.4	12.2
May 18	7.3	8.6	8.5	8	7.3	7.1	8.7	11	13.4	16	18	19	19.3	19.2	19.4	20	19.8	18.4	17.4	15.6	14.6	13.4	12.9	12.6	7.1	20.0	14.0
May 19	11.6	11.1	10.5	9.1	7.7	6.7	7.4	10.1	13.6	15.9	18.3	20.6	22.4	23.4	24.4	25.3	24.9	23.7	22.2	19.7	16.6	13.4	11	8.9	6.7	25.3	15.8
May 20	8.3	9.6	10.8	10.7	10.4	10.1	10	10.1	10.7	11.7	12.7	14	15.1	15.6	16.1	16.8	17.6	17.7	17.5	16.2	13.8	11.5	11.5	11.4	8.3	17.7	12.9
May 21	10.1	10.3	11.6	9.7	8.3	8.4	10.7	13.7	16.5	19	20.9	22.7	24.1	24.7	25.2	25.7	25.8	26.3	25.8	23.7	21.4	18.2	14	13.5	8.3	26.3	17.9
May 22	13	13	13.1	12.7	12.4	12.3	12.4	12.6	12.4	12.2	12.3	12.6	11.6	10.8	11	10.7	10.7	10.6	10.4	10.1	9.5	8.1	7.5	7.3	7.3	13.1	11.2
May 23	7	6.9	6.6	6.5	6.2	6	5.9	5.9	5.9	5.9	6	6	6.4	6.9	7.3	7.5	7.8	8.3	8.3	8	7.8	7.5	7.5	7.4	5.9	8.3	**6.9**
May 24	7.5	7.4	7.3	7.1	6.7	6.7	6.7	6.9	7	7.1	7.6	8.3	8.8	9.3	9.6	11.2	13.9	14.7	14.4	13	11.5	10.5	9.7	8.1	6.7	14.7	9.2
May 25	7.4	5.4	4	2.8	2.1	2.9	6	11.6	14.4	16.4	17.7	17.8	18.1	17.6	17.3	17.6	17	18.2	17.1	16.9	13.9	10.6	8.3	7.2	2.1	18.2	12.0
May 26	6.1	4.7	4.2	3.3	3	4.6	9.6	14.6	17.3	18.7	19.9	20.8	21.6	22.5	23	23.4	23.6	23.8	23.4	22.7	19.1	14.1	11.9	10.5	3.0	23.8	15.3
May 27	12.7	14.6	14.1	14	13.7	12.7	14.9	17.6	19.6	20.7	21.6	22.2	23.4	24.2	24.1	24.3	24.7	24.6	24.1	23.2	20.4	17	15.3	14.3	12.7	24.7	19.1
May 28	13.5	12	10.9	9.6	8.8	11	14.4	15.7	18.4	18.3	18.3	20	20.4	20.5	20	20.1	19.5	19.6	19.9	19.2	17.9	16.2	12.6	11	8.8	20.5	16.2
May 29	9.4	8.1	7.4	7.9	7.6	9.8	12.7	14.2	15.3	16.3	16.7	17.4	17.9	18.8	19.4	19.5	19.7	19.5	19	17.4	15	10.3	7.6	5.1	5.1	19.7	13.8
May 30	3.8	3.3	2.9	1.3	0.2	3.7	9.7	12.6	14	15.6	14.8	13	14.4	17	17.7	18.4	18.2	18.2	18.7	18.3	16	11.2	8.1	5.7	0.2	18.7	11.5
May 31	4.5	3.5	4.2	5.8	6.3	7.2	7.2	7.4	7.8	8.9	9.6	11.4	12.1	13.3	14.5	15.8	16.5	16.7	16.7	15.9	13.4	10	7	5.9	3.5	16.7	10.1
Diurnal Maximum	18.1	17.9	16.4	15.4	14.6	14.3	15.8	18.4	22.3	24.7	26.0	27.2	28.3	29.0	29.4	29.8	30.2	30.3	29.5	27.6	22.3	20.3	19.3	18.7			
Diurnal Average	9.9	9.4	8.8	8.0	7.4	7.7	9.9	12.9	15.1	16.7	17.8	18.9	19.6	20.2	20.6	20.9	21.2	21.2	20.8	19.0	16.1	13.3	11.4	10.3			

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

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

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



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

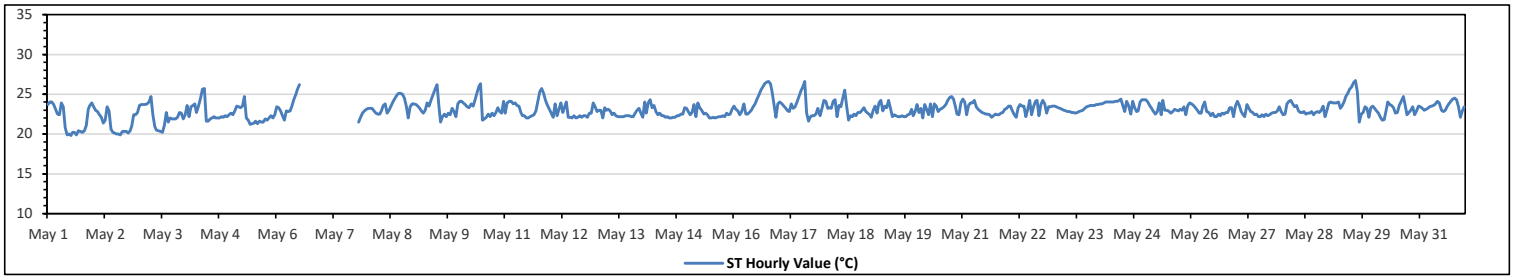
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	26.7	°C	on May 29 at hr 14	Hours in Service:	744	
Maximum Daily Value:	24.1	°C	on May 16	Hours of Data:	714	
Minimum Hourly Value:	19.8	°C	on May 1 at hr 12	Hours of Missing Data:	30	
Minimum Daily Value:	21.4	°C	on May 2	Hours of Calibration:	0	
Monthly Average:	23.0	°C		Operational Uptime:	96.0	

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
May 1	23.7	24.0	24.0	23.7	23.1	22.5	22.4	23.9	23.4	20.8	19.9	20.0	**19.8**	20.2	20.2	19.9	20.4	20.3	20.2	20.4	21.1	23.1	23.6	23.9	**19.8**	24.0	21.9
May 2	23.4	23.0	22.8	22.4	22.1	21.4	21.7	23.4	22.9	20.6	20.2	20.1	20.0	20.0	19.9	20.3	20.3	20.3	20.1	20.4	21.0	22.4	22.4	22.7	19.9	23.4	**21.4**
May 3	23.6	23.7	23.7	23.7	23.8	24.0	24.7	22.4	20.9	20.5	20.4	20.3	20.2	21.1	22.7	21.5	22.0	21.9	21.9	21.9	22.1	22.7	22.6	21.9	20.2	24.7	22.3
May 4	22.4	23.6	22.2	23.4	23.6	23.8	22.7	23.4	24.5	25.6	25.7	21.6	21.6	21.9	22.0	22.2	22.0	22.0	22.0	22.2	22.1	22.3	22.2	22.4	21.6	25.7	22.8
May 5	22.6	22.4	22.9	23.5	23.4	23.3	23.5	24.7	22.0	21.7	21.2	21.3	21.4	21.6	21.3	21.6	21.5	21.5	21.9	21.7	22.0	22.3	22.0	22.4	21.2	24.7	22.2
May 6	23.4	23.3	22.9	22.3	21.7	22.9	22.8	22.9	23.6	24.4	25.0	25.6	26.2	P	P	P	P	P	P	P	P	P	P	P	21.7	26.2	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	21.5	22.1	22.6	22.9	23.1	21.5	23.1	NA
May 8	23.2	23.2	23.2	22.9	22.6	22.5	22.5	22.9	23.6	23.8	22.6	23.0	23.5	24.1	24.5	24.9	25.1	25.1	25.0	24.5	23.5	22.0	23.4	23.8	22.0	25.1	23.6
May 9	23.8	23.7	23.5	23.2	22.9	22.6	23.0	23.9	23.5	24.2	25.0	25.6	26.2	23.4	21.5	22.2	22.5	22.2	22.6	22.4	23.2	22.8	22.2	23.8	21.5	26.2	23.3
May 10	24.1	24.1	23.9	23.7	23.4	23.3	23.8	23.5	24.3	25.2	26.0	26.3	21.7	21.9	22.1	22.5	22.2	22.6	22.3	22.7	23.3	22.8	22.6	24.1	21.7	26.3	23.4
May 11	22.6	23.9	24.1	24.1	23.8	23.9	23.6	23.5	22.7	22.3	22.3	22.0	22.0	22.2	22.3	22.4	22.9	24.1	25.3	25.7	25.1	24.2	23.7	23.1	22.0	25.7	23.4
May 12	22.6	22.1	23.8	22.3	23.1	23.9	22.7	23.3	24.0	22.1	22.1	22.0	22.3	22.0	22.1	22.3	22.1	22.3	22.3	22.1	22.6	22.6	23.9	23.4	22.0	24.0	22.7
May 13	22.8	23.0	23.0	22.0	23.3	23.0	23.1	22.9	22.4	22.6	22.3	22.2	22.2	22.2	22.2	22.3	22.3	22.3	22.2	22.2	22.6	23.0	23.2	22.6	22.0	23.3	22.6
May 14	22.1	24.0	22.6	23.9	24.3	23.3	23.6	22.8	22.4	22.6	22.3	22.3	22.1	22.2	22.0	22.0	22.1	22.1	22.3	22.3	22.5	22.5	23.3	23.2	22.0	24.3	22.7
May 15	22.8	22.4	22.7	23.7	22.2	23.9	23.3	23.0	22.5	22.6	22.4	22.0	22.0	22.1	22.0	22.1	22.2	22.2	22.3	22.2	22.6	22.4	22.5	23.1	22.0	23.9	22.6
May 16	23.5	23.1	22.9	22.4	22.8	23.8	22.5	22.5	22.7	23.0	23.4	23.8	24.4	24.9	25.5	25.9	26.3	26.5	26.6	26.3	25.3	23.7	22.1	23.8	22.1	26.6	**24.1**
May 17	24.0	23.8	23.5	23.2	22.9	22.8	23.8	23.2	23.4	24.0	24.7	25.4	25.9	26.6	22.6	21.6	22.2	22.3	22.3	22.5	23.2	22.3	23.2	24.2	21.6	26.6	23.5
May 18	24.1	23.2	23.3	23.2	24.1	24.3	22.2	23.6	23.4	24.5	25.5	23.5	21.7	22.3	22.2	22.5	22.3	22.7	22.7	23.0	23.3	22.8	22.6	22.4	21.7	25.5	23.1
May 19	22.1	23.0	23.5	22.6	23.9	24.2	22.9	23.5	23.3	24.2	23.2	22.2	22.4	22.3	22.2	22.2	22.3	22.2	22.2	22.4	22.5	23.1	22.3	22.8	22.1	24.2	22.8
May 20	23.7	22.7	23.2	22.0	23.7	23.1	22.4	23.8	22.2	23.8	23.5	22.8	23.1	23.2	23.4	23.7	24.2	24.6	24.7	24.4	23.6	22.5	22.4	23.9	22.0	24.7	23.4
May 21	24.4	24.0	22.4	23.6	23.9	23.9	24.2	23.4	23.1	22.9	22.7	22.6	22.5	22.5	22.4	22.1	22.3	22.5	22.4	22.4	22.6	22.7	23.1	23.2	22.1	24.4	23.0
May 22	23.5	23.5	22.9	22.4	22.1	23.3	23.7	23.5	23.5	22.2	23.1	24.2	22.4	23.4	24.1	24.2	22.3	23.7	24.2	23.8	22.6	23.4	23.4	23.5	22.1	24.2	23.3
May 23	23.5	23.4	23.3	23.2	23.1	23.0	22.9	22.8	22.8	22.7	22.7	22.6	22.7	22.8	22.9	23.0	23.2	23.4	23.5	23.6	23.6	23.6	23.7	23.7	22.6	23.7	23.2
May 24	23.8	23.8	23.9	24.0	24.0	24.0	24.0	24.0	24.1	24.1	24.2	24.4	23.6	22.8	24.1	23.6	22.5	24.1	23.3	22.8	22.9	24.0	24.3	24.3	22.5	24.4	23.8
May 25	24.3	24.0	23.6	23.2	22.8	22.5	22.8	23.9	22.4	24.2	23.0	23.0	22.9	22.6	22.8	23.1	23.0	22.9	23.1	23.0	23.4	22.4	23.6	23.9	22.4	24.3	23.2
May 26	23.8	23.6	23.3	23.0	22.6	22.6	23.5	24.0	22.8	22.7	22.3	22.6	22.2	22.2	22.5	22.3	22.6	22.5	22.7	22.7	23.3	23.3	22.2	23.5	22.2	24.0	22.9
May 27	24.1	23.6	22.8	22.4	22.2	23.7	23.2	22.8	22.7	22.4	22.5	22.2	22.2	22.4	22.2	22.5	22.3	22.4	22.6	22.7	22.7	22.9	23.4	22.8	22.2	24.1	22.7
May 28	22.4	22.5	23.8	24.1	24.2	23.8	23.4	23.6	22.9	22.7	22.7	22.8	22.5	22.6	22.6	22.8	22.4	22.7	22.8	22.7	23.0	23.5	22.2	23.0	22.2	24.2	23.0
May 29	23.9	24.0	23.9	23.9	23.9	24.0	23.2	23.6	24.1	24.7	25.1	25.6	25.9	26.4	**26.7**	25.3	21.5	22.5	22.7	23.4	23.2	22.1	23.3	23.5	21.5	**26.7**	24.0
May 30	23.2	22.9	22.6	22.1	21.7	21.8	23.0	24.0	23.7	23.6	23.3	22.6	22.7	23.6	24.1	24.7	23.7	22.4	22.7	23.0	23.4	22.4	22.9	23.5	21.7	24.7	23.1
May 31	23.4	23.2	23.0	23.1	23.2	23.4	23.5	23.6	23.8	24.1	23.9	23.0	22.8	23.0	23.4	23.8	24.1	24.4	24.5	24.3	23.4	22.1	22.9	23.4	22.1	24.5	23.5
Diurnal Maximum	24.4	24.1	24.1	24.1	24.3	24.3	24.7	24.7	24.5	25.6	26.0	26.3	26.2	26.6	26.7	25.9	26.3	26.5	26.6	26.3	25.3	24.2	24.3	24.3			
Diurnal Average	23.4	23.4	23.2	23.1	23.1	23.3	23.2	23.4	23.1	23.2	23.1	22.9	22.7	22.7	22.7	22.7	22.6	22.8	22.9	22.8	22.9	22.8	22.9	23.3			

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

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



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

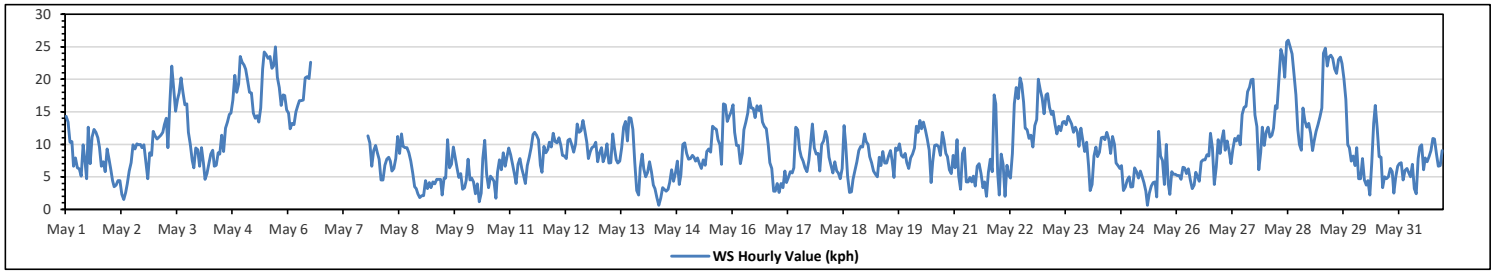
VECTOR WIND SPEED (VWS) in km/hr

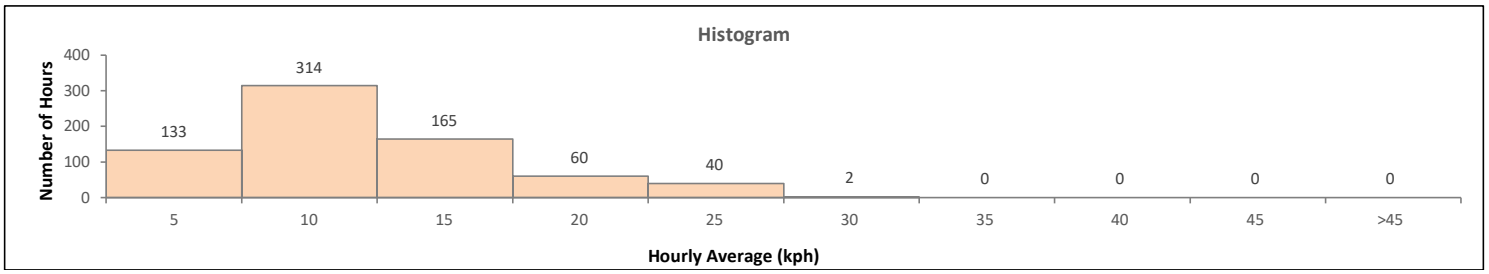
Maximum Hourly Value:	26.0	kph	on May 28 at hr 12	Hours in Service:	744	
Maximum Daily Value:	19.3	kph	on May 5	Hours of Data:	714	
Minimum Hourly Value:	0.6	kph	on May 14 at hr 8	Hours of Missing Data:	30	
Minimum Daily Value:	4.9	kph	on May 9	Hours of Calibration:	0	
Monthly Average:	2.6	kph		Operational Uptime:	96.0	

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
May 1	14.3	13.4	10.3	10.4	6.6	7.9	6.4	6.2	5.1	9.9	7.3	4.7	12.6	7.0	11.1	12.3	11.8	11.0	9.6	6.6	7.3	5.8	9.3	7.7	4.7	14.3	8.9
May 2	6.0	4.4	3.5	3.7	4.4	4.4	2.3	1.5	2.6	3.9	5.9	7.2	9.9	9.3	10.1	9.9	10.0	9.5	9.9	7.3	4.7	8.7	8.3	12.0	1.5	12.0	6.6
May 3	11.3	10.8	11.1	11.4	11.8	13.0	14.0	9.5	16.3	22.0	18.6	15.1	16.9	17.9	20.2	18.0	16.1	16.2	11.8	10.0	7.5	6.4	9.4	9.2	6.4	22.0	13.5
May 4	6.6	9.5	7.1	4.6	5.5	7.0	8.5	9.1	6.6	6.8	8.7	8.5	11.4	8.9	12.5	13.4	14.6	14.8	16.8	20.6	18.0	19.3	23.5	22.6	4.6	23.5	11.9
May 5	22.2	21.5	19.8	18.0	17.9	14.8	14.0	14.4	13.4	15.6	21.6	24.2	23.8	23.2	23.5	21.7	22.0	25.0	20.3	18.7	16.0	17.6	17.5	15.3	13.4	25.0	**19.3**
May 6	14.8	12.4	13.2	13.0	15.0	16.0	16.7	16.7	16.8	20.2	20.4	20.1	22.6	P	P	P	P	P	P	P	P	P	P	P	12.4	22.6	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	11.3	10.2	6.6	9.0	9.8	6.6	11.3	NA
May 8	8.8	7.7	4.5	4.5	6.8	7.7	8.0	7.4	5.9	6.3	7.8	11.2	8.6	11.6	9.7	9.5	9.5	8.7	7.4	5.6	3.5	3.2	2.4	1.8	1.8	11.6	7.0
May 9	2.1	2.1	4.4	3.2	4.1	3.3	4.2	3.9	4.6	4.6	4.6	2.2	4.8	4.8	10.7	6.4	6.9	9.6	7.9	6.5	4.9	5.5	3.1	3.3	2.1	10.7	**4.9**
May 10	4.4	7.7	4.5	4.8	4.2	2.4	3.9	1.2	2.5	7.8	10.6	5.4	3.3	5.1	4.8	4.3	1.7	5.7	7.6	6.1	8.7	6.6	8.2	9.4	1.2	10.6	5.5
May 11	8.4	6.9	5.4	4.0	6.9	7.8	6.2	5.3	4.0	6.7	8.0	9.5	11.5	11.8	11.4	10.7	6.8	5.7	9.7	8.7	9.2	10.3	9.6	11.7	4.0	11.8	8.2
May 12	10.4	10.2	11.0	9.8	8.3	8.2	7.8	10.6	10.8	9.9	8.8	10.1	13.1	11.8	12.1	13.7	12.1	10.3	7.8	8.9	9.5	9.7	10.3	7.3	7.3	13.7	10.1
May 13	8.7	9.5	7.3	8.2	10.1	7.1	7.2	11.6	9.6	7.6	7.1	7.4	9.5	12.6	13.5	10.5	14.1	14.0	12.3	7.2	2.9	2.2	6.4	8.5	2.2	14.1	9.0
May 14	6.2	5.0	5.7	7.3	5.8	3.7	3.2	1.8	**0.6**	1.7	3.3	3.0	2.8	3.1	4.1	6.1	4.3	5.6	7.4	3.8	5.3	10.0	10.2	8.6	**0.6**	10.2	4.9
May 15	7.7	7.8	8.3	8.0	7.4	7.9	7.0	6.3	7.6	6.8	8.9	9.3	8.8	12.8	12.5	12.3	10.7	9.9	6.9	16.2	16.1	13.5	14.3	15.0	6.3	16.2	10.1
May 16	16.1	11.8	9.8	9.8	7.0	8.6	12.2	13.4	14.8	17.1	15.6	15.5	14.1	15.9	15.2	15.9	13.4	12.7	12.4	9.9	7.2	6.3	2.8	2.8	2.8	17.1	11.7
May 17	4.0	2.6	4.0	3.3	5.9	4.1	4.9	5.8	5.6	6.4	12.6	12.2	9.2	8.1	7.4	6.4	5.8	7.5	10.5	13.1	9.4	8.5	8.6	5.9	2.6	13.1	7.2
May 18	10.0	10.5	12.0	11.1	8.0	6.8	5.6	7.3	5.9	5.6	4.7	6.3	12.9	10.1	5.1	2.6	2.7	4.6	6.0	7.3	9.0	9.7	9.6	11.6	2.6	12.9	7.7
May 19	10.4	10.0	8.1	7.2	5.9	5.4	5.0	8.0	6.7	8.9	7.1	7.1	8.2	9.0	7.5	4.9	9.4	9.1	10.1	8.3	8.0	8.6	7.2	6.3	4.9	10.4	7.8
May 20	7.9	8.5	9.4	12.8	11.8	13.7	12.4	13.4	12.2	10.8	9.1	4.1	7.3	9.8	9.9	9.7	8.3	11.8	10.6	8.6	8.1	6.1	5.5	8.3	4.1	13.7	9.6
May 21	6.4	10.7	5.2	3.1	8.6	9.4	4.2	4.2	4.9	4.2	5.1	3.6	6.6	7.0	5.5	3.3	4.2	2.0	5.7	7.7	5.8	17.6	16.2	5.6	2.0	17.6	6.5
May 22	2.2	8.5	6.9	2.0	6.8	5.2	4.8	8.6	16.2	18.7	17.0	20.2	19.3	16.5	12.5	12.2	10.9	11.4	9.6	12.9	13.8	20.0	18.4	17.1	2.0	20.2	12.2
May 23	14.7	17.6	17.8	15.7	14.6	15.1	13.1	11.6	12.8	12.1	13.4	13.5	13.0	14.3	13.7	13.1	11.8	12.6	11.9	9.7	12.5	10.6	8.9	10.3	8.9	17.8	13.1
May 24	6.7	2.9	3.8	8.2	9.6	8.1	8.8	11.0	11.1	10.7	11.8	10.8	8.6	11.2	10.0	7.1	6.7	6.3	6.7	2.9	3.4	4.5	5.0	3.4	2.9	11.8	7.5
May 25	3.5	6.4	5.8	4.8	5.9	5.1	4.1	2.8	**0.6**	2.5	3.6	4.1	4.2	1.9	12.0	8.2	7.5	3.8	10.0	4.0	2.3	5.8	5.4	5.4	**0.6**	12.0	5.0
May 26	5.2	5.2	4.6	6.5	6.4	5.5	6.2	4.5	3.2	3.7	5.7	5.1	4.3	7.3	7.6	7.6	8.4	8.2	11.7	9.5	3.8	6.5	10.7	8.6	3.2	11.7	6.5
May 27	10.6	12.1	9.1	10.5	9.0	7.0	9.3	10.9	10.5	11.3	9.9	14.6	15.7	15.8	18.1	18.8	19.9	20.0	14.5	12.7	6.1	8.8	12.6	9.8	6.1	20.0	12.4
May 28	11.9	12.6	11.1	11.4	12.5	15.9	15.5	20.1	24.6	23.5	20.3	25.7	**26.0**	25.0	23.9	20.8	17.6	12.2	10.0	9.1	15.6	13.6	12.6	13.2	9.1	**26.0**	16.9
May 29	11.7	9.0	10.5	12.0	13.0	14.2	15.6	24.0	24.8	22.0	23.4	23.7	23.2	21.6	20.9	23.0	23.4	22.4	20.1	16.9	9.9	9.5	7.4	8.2	7.4	24.8	17.1
May 30	6.7	9.5	4.7	4.7	7.8	4.5	3.7	4.4	2.2	7.2	13.2	16.0	12.5	8.1	8.0	3.3	5.0	4.7	5.0	6.3	5.8	2.5	5.0	6.6	2.2	16.0	6.6
May 31	7.0	7.2	4.5	6.0	6.3	5.7	5.0	6.9	3.2	2.4	7.8	9.6	9.9	6.1	7.9	7.3	8.1	9.0	10.9	10.8	8.6	6.6	6.7	9.0	2.4	10.9	7.2
Diurnal Maximum	22.2	21.5	19.8	18.0	17.9	16.0	16.7	24.0	24.8	23.5	23.4	25.7	26.0	25.0	23.9	23.0	23.4	25.0	20.3	20.6	18.0	20.0	23.5	22.6			
Diurnal Average	8.9	9.1	8.1	8.0	8.5	8.2	8.0	8.7	8.9	9.9	10.7	11.0	11.8	11.3	11.8	10.8	10.5	10.5	10.4	9.6	8.4	9.0	9.5	9.1			

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

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



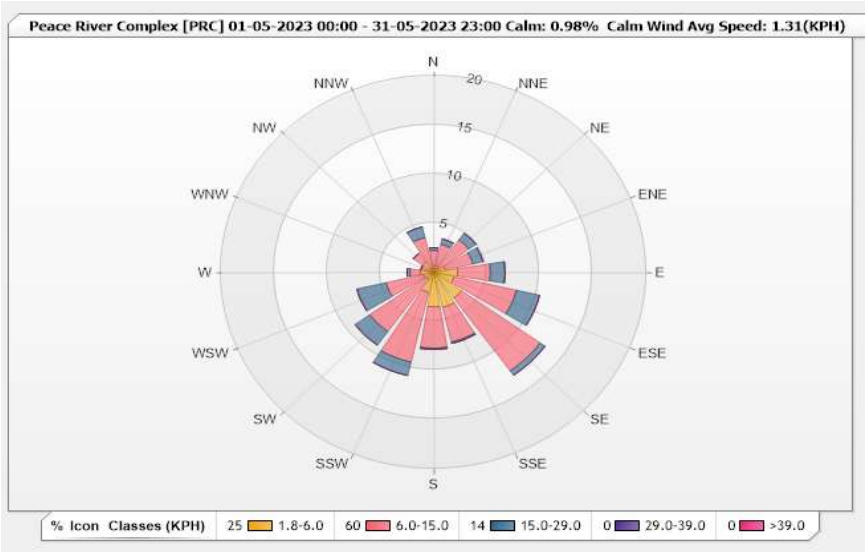


Station: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 05-2023

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

Calm (WS<1.8kph): 0.98% Valid Data: 95.97%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.42	1.82	0.28	0	0	2.52
NNE	0.7	2.24	0.56	0	0	3.5
NE	0.56	3.5	0.84	0	0	4.9
ENE	1.12	2.66	0.98	0	0	4.76
E	2.24	3.08	1.4	0	0	6.72
ESE	1.96	6.02	2.24	0	0	10.22
SE	3.22	9.1	0.56	0	0	12.88
SSE	3.64	3.64	0.14	0	0	7.42
S	3.5	4.2	0.14	0	0	7.84
SSW	2.1	7.28	1.4	0	0	10.78
SW	0.84	6.58	1.68	0	0	9.1
WSW	0.98	3.64	2.8	0	0	7.42
W	1.26	0.98	0.28	0	0	2.52
WNW	0.42	0.84	0	0	0	1.26
NW	1.26	1.12	0	0	0	2.38
NNW	0.42	3.22	1.12	0	0	4.76
Summary	24.64	59.92	14.42	0	0	98.98



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - May 2023

Summary of Hourly Averages

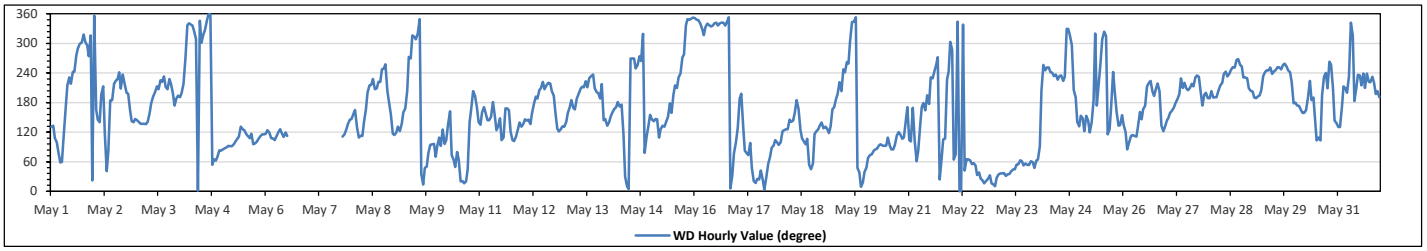
WIND DIRECTION (VWD) in sector

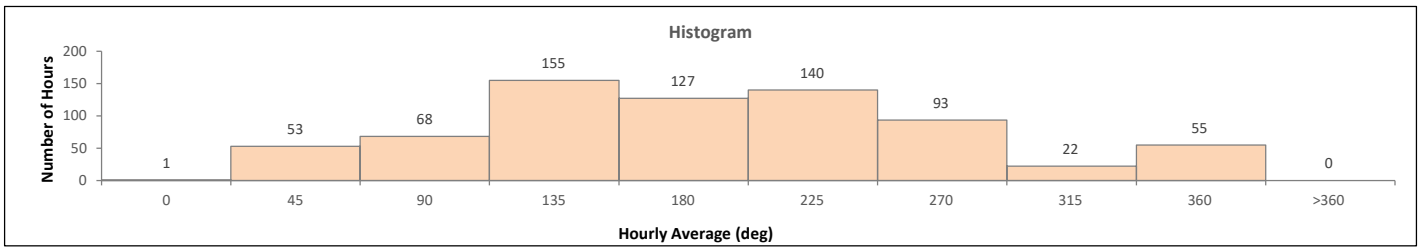
Monthly Average:	158 (SSE)	degree	
Hours in Service:	744		
Hours of Data:	714		
Hours of Missing Data:	30		
Hours of Calibration:	0		
Operational Uptime:	96.0		

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
May 1	SE	SE	ESE	E	ENE	ENE	ENE	ESE	SSE	SSW	SW	SW	WSW	WSW	W	WNW	WNW	WNW	NW	WNW	WNW	W	NW	NNE	266	W
May 2	N	SSE	SE	SE	SSW	SSW	ESE	NE	E	S	S	SW	SW	SW	WSW	SSW	SW	SW	SSW	SSW	SSE	SE	SE	SE	194	SSW
May 3	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SW	SW	SSW	S	S	SSW	190	S
May 4	S	SSW	SW	W	NNW	NNW	NNW	NNW	NW	NW	N	NNW	WNW	NW	NW	NNW	N	N	NE	ENE	ENE	ENE	E	E	20	NNE
May 5	E	E	E	E	E	E	E	E	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	E	E	E	ESE	ESE	ESE	ESE	106	ESE
May 6	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	P	P	P	P	P	P	P	P	P	P	P	NA	NA
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	ESE	ESE	SE	SE	SE	NA	NA
May 8	SE	SSE	SSE	SE	ESE	ESE	ESE	SE	SSE	SSW	SSW	SW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	SSW	S	SSE	ESE	190	S
May 9	ESE	ESE	SE	ESE	SE	SSE	SSE	SSW	W	W	NW	NW	NW	NW	NNW	NE	NNE	NE	NE	ENE	E	E	E	ENE	49	NE
May 10	E	ESE	E	SE	E	ESE	SE	SSE	ENE	ENE	NE	E	ENE	NNE	NNE	NNE	NNE	NE	SE	SSE	SSW	S	SSE	SE	105	ESE
May 11	SE	SSE	S	SSE	SE	SE	SSE	S	SSE	ESE	SE	SE	ESE	ESE	SSE	SSE	SSE	ESE	ESE	E	ESE	SE	SE	SE	136	SE
May 12	SE	SE	SE	SE	SE	SSE	S	S	S	SSW	SSW	SW	SSW	SSW	SW	SW	SSW	SSW	SSE	SE	ESE	SE	SE	SE	175	S
May 13	SE	SSE	S	S	SSE	SSE	S	SSW	SSW	SSW	SSW	SW	SSW	SW	SW	SW	SSW	SSW	SSW	S	SW	SE	SE	SE	195	SSW
May 14	SE	SSE	SSE	SSE	S	S	S	S	ESE	NNE	N	N	W	W	W	WSW	WSW	W	W	NW	ENE	ESE	SE	SSE	175	S
May 15	SE	SE	SE	SE	ESE	SE	SE	SE	SE	SSE	S	SSE	SSW	SSW	SSW	SW	WSW	W	W	NNW	NNW	NNW	N	N	201	SSW
May 16	N	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	ENE	E	343	NNW
May 17	SE	S	SSW	SE	E	ENE	ENE	E	NE	NNE	NNE	NNE	NNE	NE	NNE	N	NNE	NE	ENE	E	E	ESE	E	E	62	ENE
May 18	E	ESE	ESE	SE	SE	SE	SE	SE	SSE	S	SSE	ESE	ESE	E	E	ESE	NE	NE	NE	ESE	ESE	SE	SE	SE	122	ESE
May 19	SE	SE	SE	ESE	SE	SSE	SSE	S	SSW	SW	SSW	WSW	WSW	W	WSW	WNW	NNW	NNW	N	NE	NE	N	NNE	NE	170	SSE
May 20	NE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	ESE	E	E	E	E	ESE	ESE	ESE	ESE	ESE	SE	S	94	E
May 21	ESE	E	SSE	E	ENE	E	SE	S	S	SSE	SSW	S	SW	SW	WSW	WSW	W	NNE	ENE	ESE	ESE	SE	SW	WSW	WNW	174	S
May 22	WNW	ENE	ENE	NNW	N	N	NNW	NE	ENE	ENE	ENE	NE	ENE	NE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	38	NE
May 23	N	NNE	NE	NE	NE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	NE	NE	NE	NE	ENE	ENE	NE	ENE	44	NE
May 24	ENE	E	SSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	NNW	NNW	NW	WNW	SSW	S	SE	SE	240	WSW
May 25	SSE	SE	ESE	SSE	SE	ESE	SE	S	NW	S	SW	WSW	NW	NW	NW	ESE	SE	S	WSW	SSW	SSE	SE	SE	SSE	162	SSE
May 26	SE	ESE	E	E	ESE	ESE	ESE	ESE	SE	SSE	SE	SSE	S	SSW	SW	SW	SSW	S	SSW	SW	SSW	SE	ESE	SE	161	SSE
May 27	SE	SSE	SSE	SSE	SSE	S	S	SSW	SW	SSW	SW	SSW	SSW	SSW	SW	SSW	SW	SW	SW	SSW	S	SSW	SSW	S	203	SSW
May 28	S	SSW	S	S	S	SSW	SSW	SW	SW	WSW	SW	SW	WSW	WSW	WSW	W	W	WSW	WSW	SW	SW	SW	SSW	SSW	232	SW
May 29	SSW	S	S	S	SSW	SSW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	S	237	SW
May 30	S	S	S	SSE	SSE	SSE	SSE	S	SW	S	S	SE	ESE	ESE	ESE	SSW	SW	WSW	SSW	W	WSW	SSW	SE	SE	169	SSE
May 31	SE	SE	S	SSW	SSW	SSW	SW	NNW	NW	S	SSW	SW	SW	SSW	WSW	SSW	WSW	SW	SW	SW	SW	SSW	SSW	S	215	SSW

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 - May 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	26.0	kph	on May 28 at hr 12	Hours in Service:	744
Maximum Daily Value:	19.3	kph	on May 5	Hours of Data:	714
Minimum Hourly Value:	0.6	kph	on May 14 at hr 8	Hours of Missing Data:	30
Minimum Daily Value:	4.9	kph	on May 9	Hours of Calibration:	0
Monthly Average:	2.6	kph		Operational Uptime:	96.0

WIND DIRECTION

Monthly Average: 158 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			
May 1	14.3	13.4	10.3	10.4	6.6	7.9	6.4	6.2	5.1	9.9	7.3	4.7	12.6	7.0	11.1	12.3	11.8	11.0	9.6	6.6	7.3	5.8	9.3	7.7	4.7	14.3	8.9
	SE	SE	ESE	E	ENE	ENE	ENE	ESE	SSE	SSW	SW	SW	WSW	WSW	W	WNW	WNW	WNW	NW	WNW	WNW	W	NW	NNE			
May 2	6.0	4.4	3.5	3.7	4.4	4.4	2.3	1.5	2.6	3.9	5.9	7.2	9.9	9.3	10.1	9.9	10.0	9.5	9.9	7.3	4.7	8.7	8.3	12.0	1.5	12.0	6.6
	N	SSE	SE	SE	SSW	SSW	ESE	NE	E	S	S	SW	SW	SW	WSW	SSW	SW	SW	SSW	SSW	SSE	SE	SE	SE			
May 3	11.3	10.8	11.1	11.4	11.8	13.0	14.0	9.5	16.3	22.0	18.6	15.1	16.9	17.9	20.2	18.0	16.1	16.2	11.8	10.0	7.5	6.4	9.4	9.2	6.4	22.0	13.5
	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SW	SW	SSW	S	S	SSW			
May 4	6.6	9.5	7.1	4.6	5.5	7.0	8.5	9.1	6.6	6.8	8.7	8.5	11.4	8.9	12.5	13.4	14.6	14.8	16.8	20.6	18.0	19.3	23.5	22.6	4.6	23.5	11.9
	S	SSW	SW	W	NNW	NNW	NNW	NNW	NW	NW	N	NNW	WNW	NW	NW	NNW	N	N	NE	ENE	ENE	ENE	E	E			
May 5	22.2	21.5	19.8	18.0	17.9	14.8	14.0	14.4	13.4	15.6	21.6	24.2	23.8	23.2	23.5	21.7	22.0	25.0	20.3	18.7	16.0	17.6	17.5	15.3	13.4	25.0	**19.3**
	E	E	E	E	E	E	E	E	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	E	E	E	ESE	ESE	ESE	ESE			
May 6	14.8	12.4	13.2	13.0	15.0	16.0	16.7	16.7	16.8	20.2	20.4	20.1	22.6	P	P	P	P	P	P	P	P	P	P	P	12.4	22.6	NA
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	P	P	P	P	P	P	P	P	P	P	P			
May 7	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	11.3	10.2	6.6	9.0	9.8	6.6	11.3	NA
	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	ESE	ESE	SE	SE	SE			
May 8	8.8	7.7	4.5	4.5	6.8	7.7	8.0	7.4	5.9	6.3	7.8	11.2	8.6	11.6	9.7	9.5	9.5	8.7	7.4	5.6	3.5	3.2	2.4	1.8	1.8	11.6	7.0
	SE	SSE	SSE	SE	ESE	ESE	ESE	SE	SSE	SSW	SSW	SW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	SSW	S	SSE	ESE			
May 9	2.1	2.1	4.4	3.2	4.1	3.3	4.2	3.9	4.6	4.6	4.6	2.2	4.8	4.8	10.7	6.4	6.9	9.6	7.9	6.5	4.9	5.5	3.1	3.3	2.1	10.7	**4.9**
	ESE	ESE	SE	ESE	SE	SSE	SSE	SSW	W	W	NW	NW	NW	NW	NNW	NE	NNE	NE	NE	ENE	E	E	E	ENE			
May 10	4.4	7.7	4.5	4.8	4.2	2.4	3.9	1.2	2.5	7.8	10.6	5.4	3.3	5.1	4.8	4.3	1.7	5.7	7.6	6.1	8.7	6.6	8.2	9.4	1.2	10.6	5.5
	E	ESE	E	SE	E	ESE	SE	SSE	ENE	ENE	NE	E	ENE	NNE	NNE	NNE	NNE	NE	SE	SSE	SSW	S	SSE	SE			
May 11	8.4	6.9	5.4	4.0	6.9	7.8	6.2	5.3	4.0	6.7	8.0	9.5	11.5	11.8	11.4	10.7	6.8	5.7	9.7	8.7	9.2	10.3	9.6	11.7	4.0	11.8	8.2
	SE	SSE	S	SSE	SE	SE	SSE	S	SSE	ESE	SE	SE	ESE	ESE	SSE	SSE	SSE	ESE	ESE	E	ESE	SE	SE	SE			
May 12	10.4	10.2	11.0	9.8	8.3	8.2	7.8	10.6	10.8	9.9	8.8	10.1	13.1	11.8	12.1	13.7	12.1	10.3	7.8	8.9	9.5	9.7	10.3	7.3	7.3	13.7	10.1
	SE	SE	SE	SE	SE	SSE	S	S	S	SSW	SSW	SW	SSW	SSW	SW	SW	SSW	SSW	SSE	SE	ESE	SE	SE	SE			
May 13	8.7	9.5	7.3	8.2	10.1	7.1	7.2	11.6	9.6	7.6	7.1	7.4	9.5	12.6	13.5	10.5	14.1	14.0	12.3	7.2	2.9	2.2	6.4	8.5	2.2	14.1	9.0
	SE	SSE	S	S	SSE	SSE	S	SSW	SSW	SSW	SSW	SW	SSW	SW	SW	SW	SSW	SSW	SSW	S	SW	SE	SE	SE			
May 14	6.2	5.0	5.7	7.3	5.8	3.7	3.2	1.8	**0.6**	1.7	3.3	3.0	2.8	3.1	4.1	6.1	4.3	5.6	7.4	3.8	5.3	10.0	10.2	8.6	**0.6**	10.2	4.9
	SE	SSE	SSE	SSE	S	S	S	S	ESE	NNE	N	N	W	W	W	WSW	WSW	W	W	NW	ENE	ESE	SE	SSE			
May 15	7.7	7.8	8.3	8.0	7.4	7.9	7.0	6.3	7.6	6.8	8.9	9.3	8.8	12.8	12.5	12.3	10.7	9.9	6.9	16.2	16.1	13.5	14.3	15.0	6.3	16.2	10.1
	SE	SE	SE	SE	ESE	SE	SE	SE	SE	SSE	S	SSE	SSW	SSW	SSW	SW	WSW	W	W	NNW	NNW	NNW	N	N			
May 16	16.1	11.8	9.8	9.8	7.0	8.6	12.2	13.4	14.8	17.1	15.6	15.5	14.1	15.9	15.2	15.9	13.4	12.7	12.4	9.9	7.2	6.3	2.8	2.8	2.8	17.1	11.7
	N	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	ENE	E			
May 17	4.0	2.6	4.0	3.3	5.9	4.1	4.9	5.8	5.6	6.4	12.6	12.2	9.2	8.1	7.4	6.4	5.8	7.5	10.5	13.1	9.4	8.5	8.6	5.9	2.6	13.1	7.2
	SE	S	SSW	SE	E	ENE	ENE	E	NE	NNE	NNE	NNE	NNE	NE	NNE	N	NNE	NE	ENE	E	E	ESE	E	E			
May 18	10.0	10.5	12.0	11.1	8.0	6.8	5.6	7.3	5.9	5.6	4.7	6.3	12.9	10.1	5.1	2.6	2.7	4.6	6.0	7.3	9.0	9.7	9.6	11.6	2.6	12.9	7.7
	E	ESE	ESE	SE	SE	SE	SE	SE	SSE	S	SSE	ESE	ESE	E	E	ESE	NE	NE	NE	ESE	ESE	SE	SE	SE			
May 19	10.4	10.0	8.1	7.2	5.9	5.4	5.0	8.0	6.7	8.9	7.1	7.1	8.2	9.0	7.5	4.9	9.4	9.1	10.1	8.3	8.0	8.6	7.2	6.3	4.9	10.4	7.8
	SE	SE	SE	ESE	SE	SSE	SSE	S	SSW	SW	SSW	WSW	WSW	W	WSW	WNW	NNW	NNW	N	NE	NE	N	NNE	NE			
May 20	7.9	8.5	9.4	12.8	11.8	13.7	12.4	13.4	12.2	10.8	9.1	4.1	7.3	9.8	9.9	9.7	8.3	11.8	10.6	8.6	8.1	6.1	5.5	8.3	4.1	13.7	9.6
	NE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	ESE	E	E	E	E	ESE	ESE	ESE	ESE	ESE	SE	S			
May 21	6.4	10.7	5.2	3.1	8.6	9.4	4.2	4.2	4.9	4.2	5.1	3.6	6.6	7.0	5.5	3.3	4.2	2.0	5.7	7.7	5.8	17.6	16.2	5.6	2.0	17.6	6.5
	ESE	E	SSE	E	ENE	E	SE	S	S	SSE	SSW	S	SW	SW	WSW	WSW	W	NNE	ENE	ESE	ESE	SW	WSW	WNW			
May 22	2.2	8.5	6.9	2.0	6.8	5.2	4.8	8.6	16.2	18.7	17.0	20.2	19.3	16.5	12.5	12.2	10.9	11.4	9.6	12.9	13.8	20.0	18.4	17.1	2.0	20.2	12.2
	WNW	ENE	ENE	NNW	N	N	NNW	NE	ENE	ENE	ENE	NE	ENE	NE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			
May 23	14.7	17.6	17.8	15.7	14.6	15.1	13.1	11.6	12.8	12.1	13.4	13.5	13.0	14.3	13.7	13.1	11.8	12.6	11.9	9.7	12.5	10.6	8.9	10.3	8.9	17.8	13.1
	N	NNE	NE	NE	NE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	NE	NE	NE	NE	ENE	ENE	NE	ENE			
May 24	6.7	2.9	3.8	8.2	9.6	8.1	8.8	11.0	11.1	10.7	11.8	10.8	8.6	11.2	10.0	7.1	6.7	6.3	6.7	2.9	3.4	4.5	5.0	3.4	2.9	11.8	7.5
	ENE	E	SSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	NNW	NNW	NW	WNW	SSW	S	SE	SE			
May 25	3.5	6.4	5.8	4.8	5.9	5.1	4.1	2.8	**0.6**	2.5	3.6	4.1	4.2	1.9	12.0	8.2	7.5	3.8	10.0	4.0	2.3	5.8	5.4	5.4	**0.6**	12.0	5.0
	SSE	SE	ESE	SSE	SE	ESE	SE	S	NW	S	SW	WSW	NW	NW	NW	ESE	SE	S	WSW	SSW	SSE	SE	SE	SSE			
May 26	5.2	5.2	4.6	6.5	6.4	5.5	6.2	4.5	3.2	3.7	5.7	5.1	4.3	7.3	7.6	7.6	8.4	8.2	11.7	9.5	3.8	6.5	10.7	8.6	3.2	11.7	6.5
	SE	ESE	E	E	ESE	ESE	ESE	ESE	SE	SSE	SE	SSE	S	SSW	SW	SW	SSW	S	SSW	SW	SSW	SE	ESE	SE			
May 27	10.6	12.1	9.1	10.5	9.0	7.0	9.3	10.9	10.5	11.3	9.9	14.6	15.7	15.8	18.1	18.8	19.9	20.0	14.5	12.7	6.1	8.8	12.6	9.8	6.1	20.0	12.4
	SE	SSE	SSE	SSE	SSE	S	S	SSW	SW	SSW	SW	SSW	SSW	SSW	SW	SSW	SW	SW	SW	SSW	S	SSW	SSW	S			
May 28	11.9	12.6	11.1	11.4	12.5	15.9	15.5	20.1	24.6	23.5	20.3	25.7	**26.0**	25.0	23.9	20.8	17.6	12.2	10.0	9.1	15.6	13.6	12.6	13.2	9.1	**26.0**	16.9
	S	SSW	S	S	S	SSW	SSW	SW	SW	WSW	SW	SW	WSW	WSW	WSW	W	W	WSW	WSW	SW	SW	SW	SSW	SSW			
May 29	11.7	9.0	10.5	12.0	13.0	14.2	15.6	24.0	24.8	22.0	23.4	23.7	23.2	21.6	20.9	23.0	23.4	22.4	20.1	16.9	9.9	9.5	7.4	8.2	7.4	24.8	17.1
	SSW	S	S	S	SSW	SSW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	S			
May 30	6.7	9.5	4.7	4.7	7.8	4.5	3.7	4.4	2.2	7.2	13.2	16.0	12.5	8.1	8.0	3.3	5.0	4.7	5.0	6.3	5.8	2.5	5.0	6.6	2.2	16.0	6.6
	S	S	S	SSE	SSE	SSE	SSE	S	SW	S	S	SE	ESE	ESE	ESE	SSW	SW	WSW	SSW	W	WSW	SSW	SE	SE			
May 31	7.0	7.2	4.5	6.0	6.3	5.7	5.0	6.9	3.2	2.4	7.8	9.6	9.9	6.1	7.9	7.3	8.1	9.0	10.9	10.8	8.6	6.6	6.7	9.0	2.4	10.9	7.2
	SE	SE	S	SSW	SSW	SSW	SW	NNW	NW	S	SSW	SW	SW	SSW	WSW	SSW	WSW	SW	SW	SW	SW	SSW	SSW	S			

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.

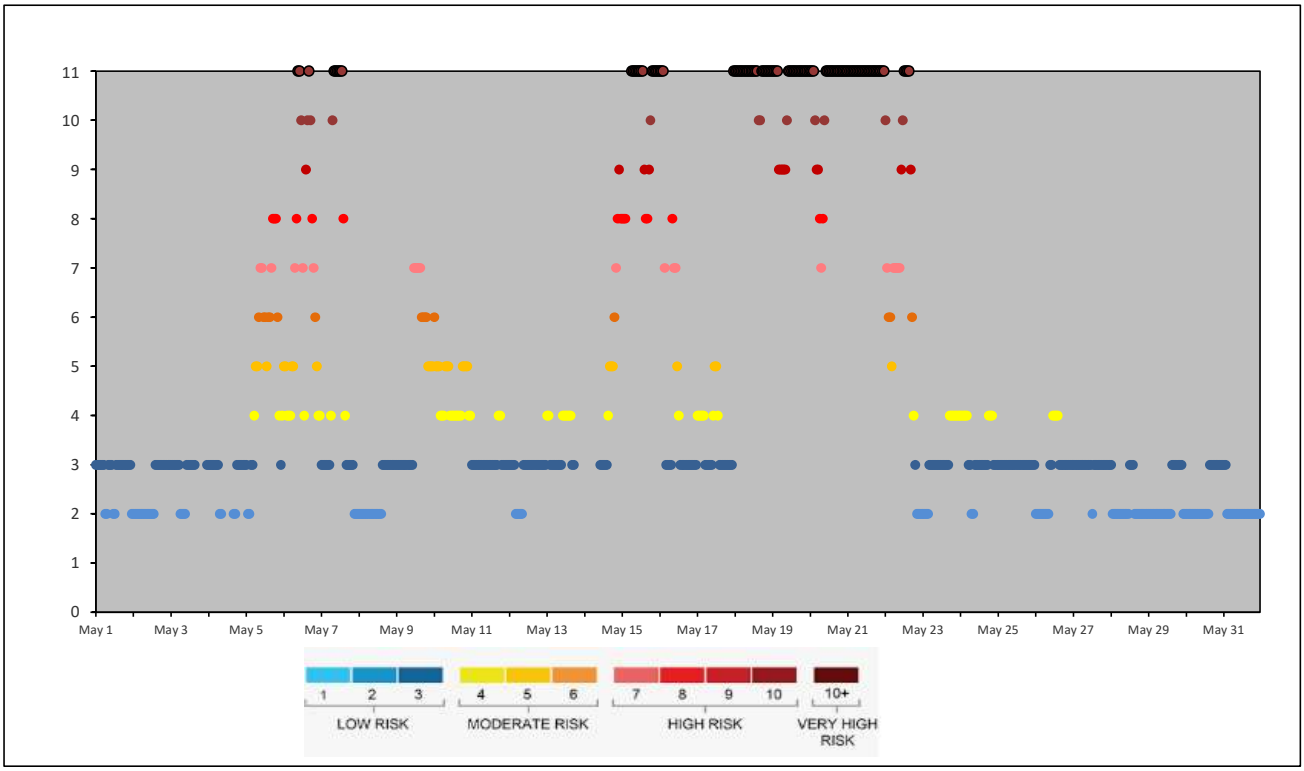
AQHI GRIMSHAW STATION

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION

AQHI - Grimshaw Station - May 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
May 1	3	3	3	3	3	3	2	2	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3	2
May 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
May 3	3	3	3	3	3	3	2	2	2	2	3	3	3	3	3	3								3
May 4	3	3	3	3	3	3	3	2	2								2	2	3	3	3	3	3	3
May 5	3	2	2	3	3	4	5	5	6	7	7	6	6	5	6	6	7	8	8	8	6	4	3	4
May 6	5	5	4	4	4	5	5	7	8	11	11	10	7	4	9	10	11	10	8	7	6	5	4	5
May 7	3	3	3	3	3	3	4	10	11	11	11	11	11	11	8	4	3	3	3	3	3	2	2	2
May 8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
May 9	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	6	6	6	6	5	5	5	5
May 10	6	5	5	5	4	4	4	5	5	5	4	4	4	4	4	4	4	4	5	5	5	5	4	4
May 11	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	3	3	3	3	3
May 12	3	3	3	3	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
May 13	4	4	3	3	3	3	3	3	3	3	4	4	4	4	4	4	3	3						
May 14											3	3	3	3	3	4	5	5	5	6	7	8	9	8
May 15	8	8	8				11	11	11	11	11	11	11	11	9	8	8	9	10	11	11	11	11	11
May 16	11	11	11	7	3	3	3	3	8	7	7	5	4	3	3	3	3	3	3	3	3	3	3	3
May 17	4	4	4	4	4	3	3	3	3	3	4	5	5	4	3	3	3	3	3	3	3	3	3	11
May 18	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	11	11	11	11	11	11	11
May 19	11	11	11	11	9	9	9	9	9	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11
May 20	11	11	11	10	9	9	8	7	8	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11
May 21	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
May 22	10	7	6	6	5	7	7	7	7	7	9	10	11	11	11	11	9	6	4	3	2	2	2	2
May 23	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
May 24	4	4	4	4	4	3	3	2	2	3	3	3	3	3	3	3	3	3	4	4	4	3	3	3
May 25	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
May 26	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3
May 27	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3
May 28	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2
May 29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2	2
May 30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
May 31	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

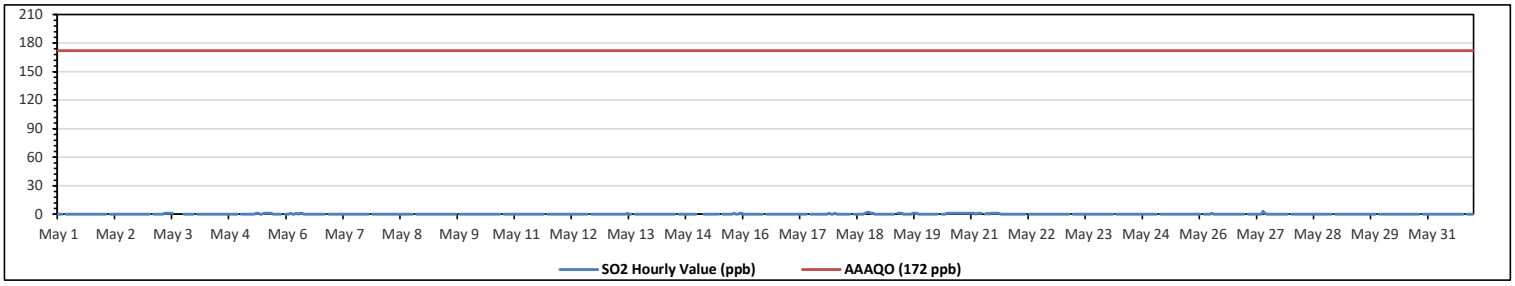
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

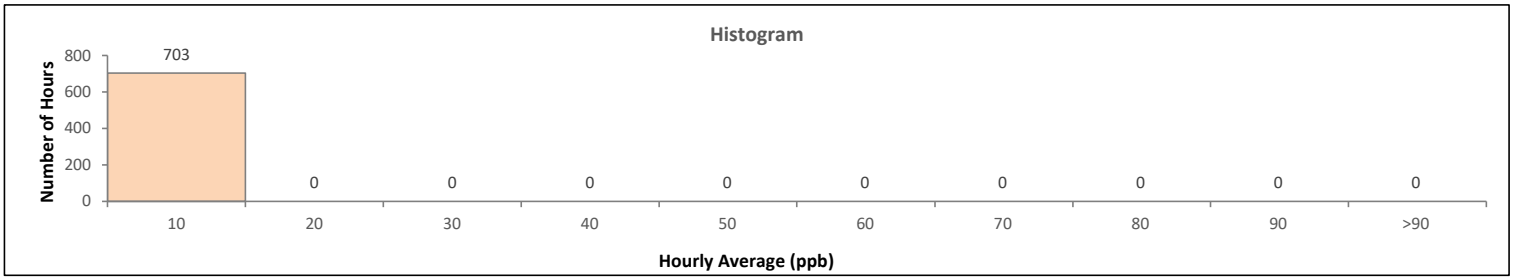
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	3	ppb	on May 27 at hr 9	Hours in Service:	744	
Maximum Daily Value:	0.6	ppb	on May 20	Hours of Data:	703	
Minimum Hourly Value:	0	ppb	on May 1 at hr 0	Hours of Missing Data:	3	
Minimum Daily Value:	0.0	ppb	on May 1	Hours of Calibration:	38	
Monthly Average:	0.1	ppb		Operational Uptime:	99.6	

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

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.



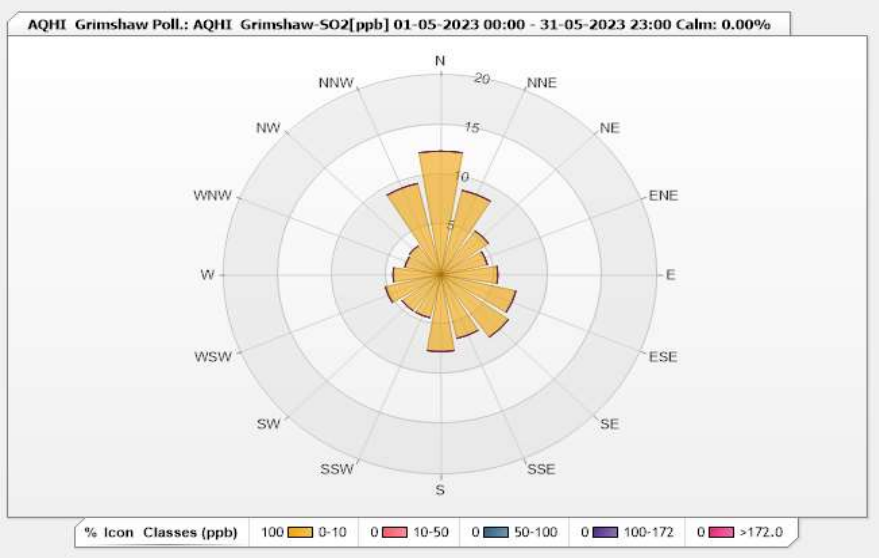


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	12.38	0	0	0	0	12.38
NNE	8.68	0	0	0	0	8.68
NE	5.41	0	0	0	0	5.41
ENE	4.41	0	0	0	0	4.41
E	5.26	0	0	0	0	5.26
ESE	7.11	0	0	0	0	7.11
SE	7.68	0	0	0	0	7.68
SSE	6.54	0	0	0	0	6.54
S	7.68	0	0	0	0	7.68
SSW	4.41	0	0	0	0	4.41
SW	4.41	0	0	0	0	4.41
WSW	5.26	0	0	0	0	5.26
W	4.41	0	0	0	0	4.41
WNW	3.41	0	0	0	0	3.41
NW	3.56	0	0	0	0	3.56
NNW	9.39	0	0	0	0	9.39
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

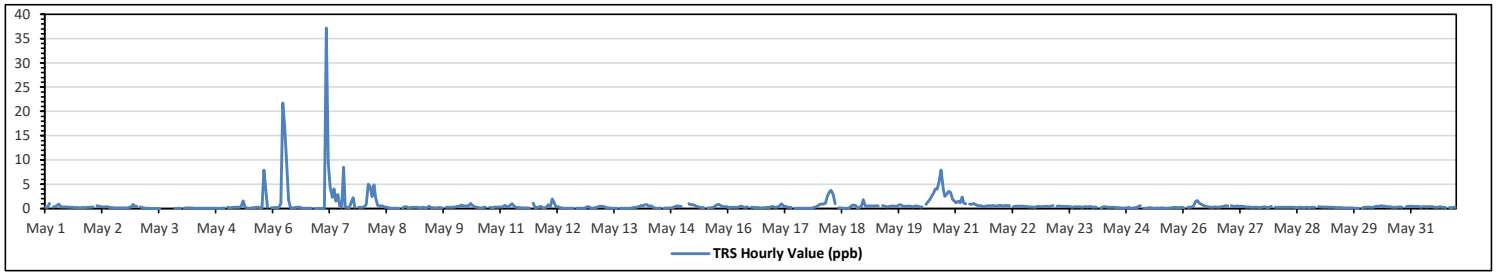
TOTAL REDUCED SULPHUR (TRS) in ppb

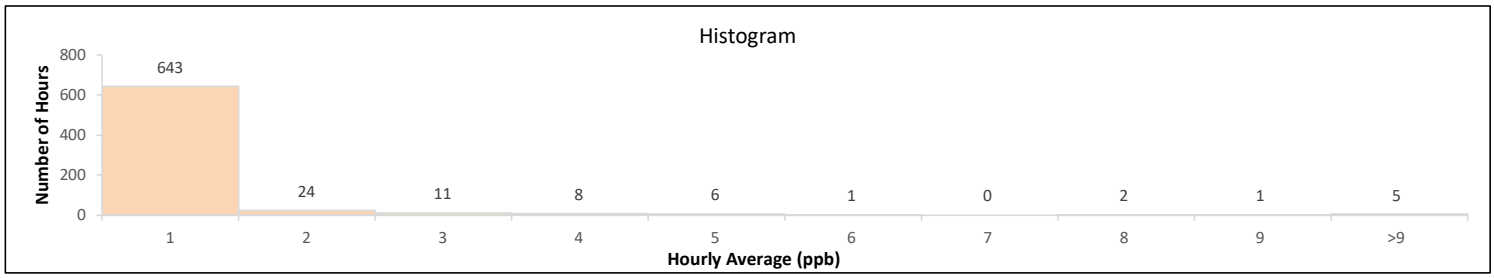
Maximum Hourly Value:	37.15	ppb	on May 7 at hr 4	Hours in Service:	744
Maximum Daily Value:	3.32	ppb	on May 7	Hours of Data:	701
Minimum Hourly Value:	0.00	ppb	on May 3 at hr 8	Hours of Missing Data:	4
Minimum Daily Value:	0.07	ppb	on May 4	Hours of Calibration:	39
Monthly Average:	0.60	ppb		Operational Uptime:	99.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.28	0.23	1.04	S	0.33	0.38	0.66	0.91	0.3	0.32	0.33	0.32	0.28	0.24	0.21	0.18	0.16	0.16	0.14	0.16	0.15	0.17	0.27	0.22	0.14	1.04	0.32
May 2	0.22	0.29	S	0.54	0.39	0.38	0.3	0.3	0.37	0.32	0.17	0.18	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.12	0.19	0.25	0.84	0.44	0.11	0.84	0.27
May 3	0.39	S	0.31	0.18	0.11	0.08	0.05	0.01	0	0	0	0	0	C	C	C	NRM	C	C	C	0	0	0.06	0.05	0.00	0.39	NA
May 4	S	0.02	0.13	0.14	0.13	0.11	0.08	0.05	0.06	0.04	0.03	0.05	0.08	0.01	0.03	0.04	0.05	0.03	0.08	0.06	0.09	0.08	0.14	S	0.01	0.14	0.07
May 5	0.21	0.11	0.17	0.22	0.2	0.19	0.24	0.39	1.58	0.33	0.11	0.08	0.09	0.15	0.11	0.19	0.19	0.13	0.14	7.89	3.79	0.27	S	0.18	0.08	7.89	0.74
May 6	0.13	0.2	0.14	0.25	1.03	21.74	16.69	9.42	1.76	0.17	0.12	0.1	0.19	0.23	0.21	0.05	0.07	0.03	0.05	0.02	0.07	S	0	0	0.00	21.74	2.29
May 7	0.03	0	0.05	0.03	**37.15**	9.61	4.31	2.29	4.04	1.53	2.92	0.5	0.21	8.49	0.24	0.22	0.18	1.27	2.25	0.27	S	0.27	0.22	0.24	0.00	**37.15**	**3.32**
May 8	0.32	0.89	4.99	4.47	2.45	4.83	2.26	0.69	0.38	0.59	0.4	0.22	0.21	0.13	0.08	0.07	0.07	0.09	0.07	S	0.13	0.33	0.35	0.17	0.07	4.99	1.05
May 9	0.14	0.25	0.19	0.19	0.27	0.14	0.16	0.23	0.14	0.16	0.39	0.16	0.15	0.14	0.12	0.18	0.17	0.11	S	0.27	0.21	0.2	0.25	0.22	0.11	0.39	0.19
May 10	0.33	0.41	0.39	0.69	0.6	0.42	0.56	0.4	1.03	0.59	0.38	0.26	0.18	0.14	0.11	0.2	0.19	S	0.25	0.16	0.15	0.3	0.25	0.33	0.11	1.03	0.36
May 11	0.3	0.3	0.64	0.35	0.32	0.74	1	0.39	0.23	0.17	0.17	0.12	0.13	0.12	0.14	0.09	S	1.11	0.12	0.28	0.19	0.43	0.13	0.11	0.09	1.11	0.33
May 12	0.29	0.81	0.3	1.93	1.18	0.3	0.34	0.15	0.11	0.07	0.01	0.02	0.03	0.02	0.05	S	0.02	0.02	0.03	0.01	0.04	0.31	0.37	0.16	0.01	1.93	0.29
May 13	0.08	0.12	0.18	0.31	0.42	0.43	0.45	0.21	0.11	0.1	0.09	0.03	0.06	0.01	S	0.05	0.03	0.05	0.09	0.05	0.09	0.13	0.17	0.21	0.01	0.45	0.15
May 14	0.33	0.45	0.6	0.62	0.78	0.73	0.37	0.53	0.32	0.13	0.05	0.09	0.11	S	0.08	0.13	0.06	0.11	0.14	0.22	0.39	0.53	0.32	0.47	0.05	0.78	0.33
May 15	K	K	K	0.98	0.74	0.76	0.63	0.43	0.3	0.27	0.17	0.15	S	0.14	0.1	0.16	0.28	0.59	0.72	0.82	0.62	0.37	0.35	0.35	0.10	0.98	0.45
May 16	0.12	0.27	0.22	0.21	0.22	0.26	0.47	0.4	0.27	0.23	0.3	S	0.22	0.24	0.11	0.2	0.14	0.09	0.15	0.14	0.2	0.17	0.27	0.46	0.09	0.47	0.23
May 17	0.28	0.24	0.33	0.58	0.97	0.4	0.43	0.2	0.2	0.17	S	0.04	0.05	0.06	0.04	0.02	0.02	0.03	0.02	0.01	0.04	0.22	0.3	0.59	0.01	0.97	0.23
May 18	0.84	0.87	0.9	1.12	2.38	3.24	3.71	2.9	1	S	0.12	0.1	0.07	0.06	0.01	0.02	0.24	0.65	0.69	0.56	0.13	0.21	0.41	1.79	0.01	3.71	0.96
May 19	0.56	0.35	0.54	0.49	0.52	0.5	0.62	0.49	S	0.6	0.49	0.37	0.29	0.4	0.5	0.48	0.39	0.51	0.72	0.7	0.45	0.44	0.43	0.51	0.29	0.72	0.49
May 20	0.45	0.33	0.47	0.48	0.39	0.29	0.33	S	0.85	1.35	1.78	2.52	3.21	3.97	3.97	5.54	7.91	4.02	2.48	2.95	3.55	3.29	1.91	1.47	0.29	7.91	2.33
May 21	1.18	1.46	1.18	2.31	1.1	0.93	S	0.9	0.86	1.02	0.84	0.65	0.6	0.55	0.37	0.37	0.48	0.55	0.48	0.6	0.6	0.46	0.58	0.64	0.37	2.31	0.81
May 22	0.58	0.5	0.67	0.59	0.54	S	0.34	0.44	0.42	0.49	0.41	0.49	0.37	0.43	0.3	0.33	0.29	0.28	0.33	0.42	0.36	0.35	0.35	0.4	0.28	0.67	0.42
May 23	0.41	0.36	0.49	0.55	S	0.44	0.52	0.42	0.43	0.34	0.41	0.37	0.34	0.27	0.33	0.35	0.33	0.34	0.27	0.29	0.36	0.31	0.35	0.35	0.27	0.55	0.38
May 24	0.27	0.29	0.25	S	0.14	0.19	0.34	0.33	0.27	0.23	0.24	0.23	0.16	0.18	0.1	0.12	0.08	0.1	0.11	0.19	0.09	0.08	0.17	0.06	0.06	0.34	0.18
May 25	0.39	0.57	S	0.05	0.05	0.11	0.16	0.13	0.09	0.08	0.11	0.07	0.1	0.11	0.08	0.04	0.12	0.08	0.15	0.19	0.15	0.18	0.17	0.25	0.04	0.57	0.15
May 26	0.14	S	0.25	0.23	0.33	0.47	1.44	1.68	1.1	0.91	0.71	0.48	0.35	0.29	0.2	0.28	0.29	0.29	0.28	0.3	0.37	0.45	0.55	0.51	0.14	1.68	0.52
May 27	S	0.53	0.45	0.44	0.52	0.39	0.39	0.45	0.36	0.27	0.29	0.2	0.26	0.26	0.23	0.2	0.17	0.24	0.3	0.3	0.17	0.24	0.42	S	0.17	0.53	0.32
May 28	0.19	0.25	0.23	0.2	0.21	0.21	0.28	0.25	0.26	0.24	0.25	0.18	0.17	0.23	0.27	0.18	0.22	0.21	0.18	0.2	0.25	0.22	S	0.34	0.17	0.34	0.23
May 29	0.32	0.32	0.28	0.32	0.26	0.28	0.23	0.19	0.18	0.15	0.15	0.16	0.12	0.14	0.11	0.13	0.11	0.11	0.08	0.06	0.03	S	0.06	0.19	0.03	0.32	0.17
May 30	0.24	0.29	0.2	0.22	0.2	0.4	0.47	0.41	0.54	0.4	0.49	0.31	0.34	0.29	0.21	0.27	0.23	0.29	0.29	0.28	S	0.3	0.42	0.42	0.20	0.54	0.33
May 31	0.41	0.47	0.34	0.47	0.34	0.28	0.36	0.35	0.3	0.36	0.36	0.37	0.23	0.26	0.24	0.34	0.25	0.24	0.15	S	0.18	0.17	0.2	0.21	0.15	0.47	0.30
Diurnal Maximum	1.18	1.46	4.99	4.47	37.15	21.74	16.69	9.42	4.04	1.53	2.92	2.52	3.21	8.49	3.97	5.54	7.91	4.02	2.48	7.89	3.79	3.29	1.91	1.79			
Diurnal Average	0.34	0.40	0.57	0.66	1.81	1.64	1.27	0.86	0.60	0.39	0.41	0.29	0.29	0.61	0.30	0.36	0.44	0.41	0.37	0.63	0.45	0.37	0.36	0.39			

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.



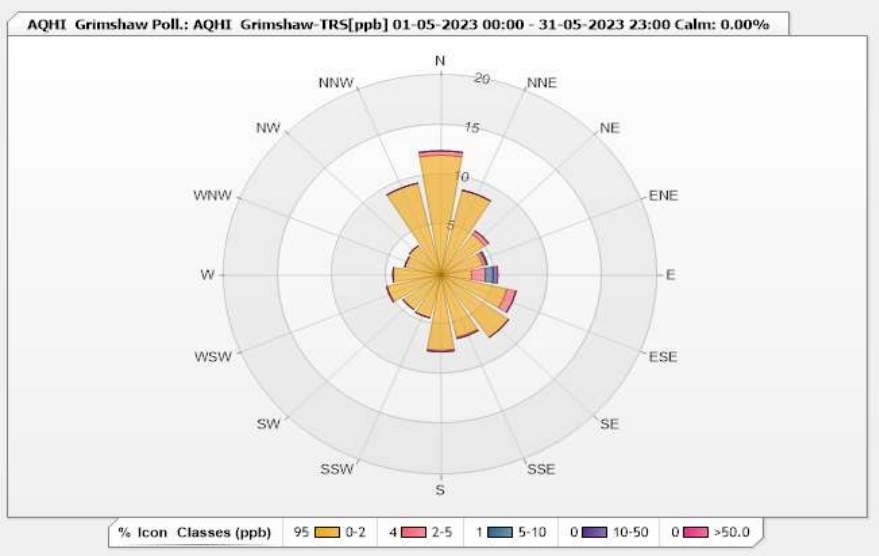


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 94.22% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	11.98	0.43	0	0	0	12.41
NNE	8.7	0	0	0	0	8.7
NE	4.99	0.43	0	0	0	5.42
ENE	3.99	0.29	0.14	0	0	4.42
E	2.85	1.28	0.71	0.43	0	5.27
ESE	6.28	0.86	0	0	0	7.14
SE	7.7	0	0	0	0	7.7
SSE	6.42	0.14	0	0	0	6.56
S	7.56	0.14	0	0	0	7.7
SSW	4.42	0	0	0	0	4.42
SW	4.28	0	0	0	0	4.28
WSW	5.14	0	0	0	0	5.14
W	4.42	0	0	0	0	4.42
WNW	3.42	0	0	0	0	3.42
NW	3.57	0	0	0	0	3.57
NNW	9.42	0	0	0	0	9.42
Summary	95.14	3.57	0.85	0.43	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

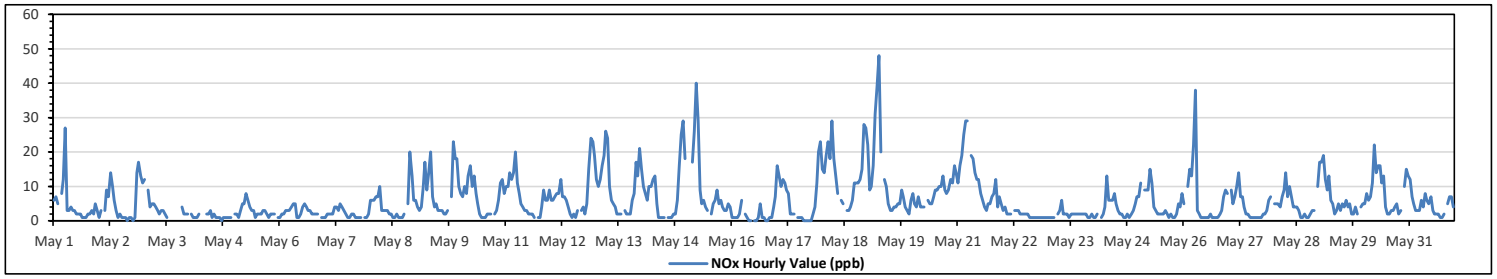
OXIDES OF NITROGEN (NOx) in ppb

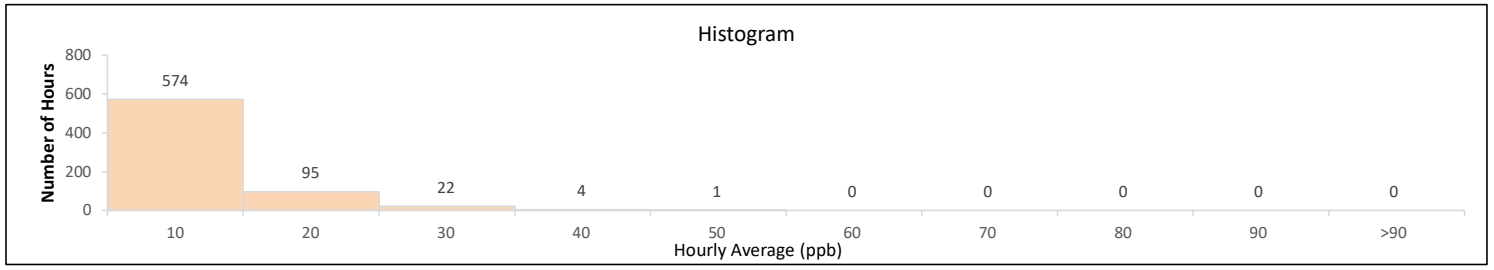
Maximum Hourly Value:	48	ppb	on May 19 at hr 6	Hours in Service:	744	
Maximum Daily Value:	13.6	ppb	on May 18	Hours of Data:	696	
Minimum Hourly Value:	0	ppb	on May 2 at hr 15	Hours of Missing Data:	8	
Minimum Daily Value:	1.3	ppb	on May 4	Hours of Calibration:	40	
Monthly Average:	6.0	ppb		Operational Uptime:	98.9	

Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	6	7	5	S	8	12	27	3	3	4	3	3	2	2	2	1	1	1	2	2	3	2	5	3	1	27	4.7
May 2	1	3	S	3	9	7	14	10	6	3	1	2	1	1	1	0	1	1	0	1	14	17	13	11	0	17	5.2
May 3	12	S	9	4	5	5	4	3	2	3	3	2	1	C	C	C	C	C	C	C	4	2	2	2	1	12	NA
May 4	S	2	1	1	1	2	Y	Y	Y	2	2	3	1	2	1	1	1	0	1	1	1	1	1	S	0	3	1.3
May 5	2	2	1	3	5	5	8	6	4	3	3	1	2	2	2	3	3	2	1	2	2	2	S	1	1	8	2.8
May 6	1	2	2	3	3	3	4	5	5	1	1	2	4	5	4	3	3	2	2	2	2	S	1	1	1	5	2.7
May 7	1	2	2	2	2	4	4	3	5	4	3	2	1	1	2	2	1	1	1	1	S	1	1	2	1	5	2.1
May 8	6	6	6	7	7	10	3	3	3	3	2	2	1	1	2	1	1	1	2	S	5	20	13	6	1	20	4.8
May 9	6	4	3	4	10	17	9	14	20	7	4	5	3	3	3	2	2	3	S	7	23	18	18	10	2	23	8.5
May 10	8	7	10	8	13	16	10	13	8	5	2	1	1	1	2	2	2	S	2	3	6	11	12	8	1	16	6.6
May 11	10	10	14	12	14	20	11	8	5	4	3	3	2	2	2	1	S	1	1	4	9	6	6	9	1	20	6.8
May 12	6	6	7	8	8	12	7	7	6	4	2	1	2	1	3	S	3	4	2	5	15	24	23	19	1	24	7.6
May 13	12	10	12	16	19	26	24	10	6	5	4	2	2	2	S	3	2	2	2	6	8	17	13	21	2	26	9.7
May 14	15	10	8	6	10	10	12	13	5	1	1	1	1	S	1	1	1	2	2	6	16	25	29	18	1	29	8.4
May 15	K	K	K	17	26	40	29	9	5	6	4	3	S	2	5	6	9	5	6	4	3	3	5	4	2	40	9.6
May 16	1	1	1	1	2	6	NRM	2	1	0	0	S	0	0	1	5	1	1	0	0	1	1	4	7	0	7	1.6
May 17	16	13	10	12	11	9	8	2	2	2	S	1	1	1	0	0	0	0	0	2	4	11	20	23	0	23	6.4
May 18	15	14	19	23	18	29	18	13	8	S	6	5	NRM	3	3	4	6	11	11	11	12	15	28	27	3	29	13.6
May 19	22	9	10	16	31	39	48	20	S	12	10	5	3	3	4	4	5	5	9	7	4	3	2	6	2	48	12.0
May 20	8	5	4	7	4	4	4	S	6	5	5	7	9	9	10	10	13	9	8	9	12	11	16	14	4	16	8.2
May 21	11	16	19	25	29	29	S	19	18	14	12	12	8	6	4	3	5	5	7	8	12	4	7	5	3	29	12.1
May 22	3	4	2	2	2	S	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	4	1.8
May 23	1	1	1	1	S	2	3	6	2	2	2	1	2	2	2	2	2	2	2	2	2	1	1	2	1	6	1.9
May 24	1	1	2	S	1	2	4	13	6	6	6	8	5	3	2	2	1	1	2	1	2	3	5	7	1	13	3.7
May 25	7	11	S	9	9	9	15	11	4	3	2	2	2	2	3	2	1	2	1	1	2	5	4	8	1	15	5.0
May 26	5	S	10	15	13	22	38	3	2	1	1	1	1	1	2	1	1	1	1	2	3	7	9	8	1	38	6.4
May 27	S	9	5	7	10	14	7	7	4	2	2	1	1	1	1	1	1	1	2	2	3	6	7	S	1	14	4.3
May 28	5	5	5	4	7	9	14	7	10	7	4	4	4	3	1	1	2	1	1	2	3	3	S	10	1	14	4.9
May 29	17	17	19	12	9	13	6	5	2	3	5	3	5	4	6	4	5	2	2	4	2	S	4	5	2	19	6.7
May 30	5	8	6	7	11	22	14	16	16	11	13	4	2	2	3	3	4	5	2	3	S	10	15	13	2	22	8.5
May 31	12	7	5	3	3	3	6	4	8	6	5	7	3	2	2	2	1	1	2	S	5	7	7	4	1	12	4.6
Diurnal Maximum	22	17	19	25	31	40	48	20	20	14	13	12	9	9	10	10	13	11	11	11	23	25	29	27			
Diurnal Average	7.7	6.9	7.1	8.2	10.0	13.4	12.6	8.2	6.0	4.4	3.8	3.2	2.5	2.4	2.6	2.4	2.7	2.5	2.6	3.5	6.2	8.2	9.4	8.8			

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

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



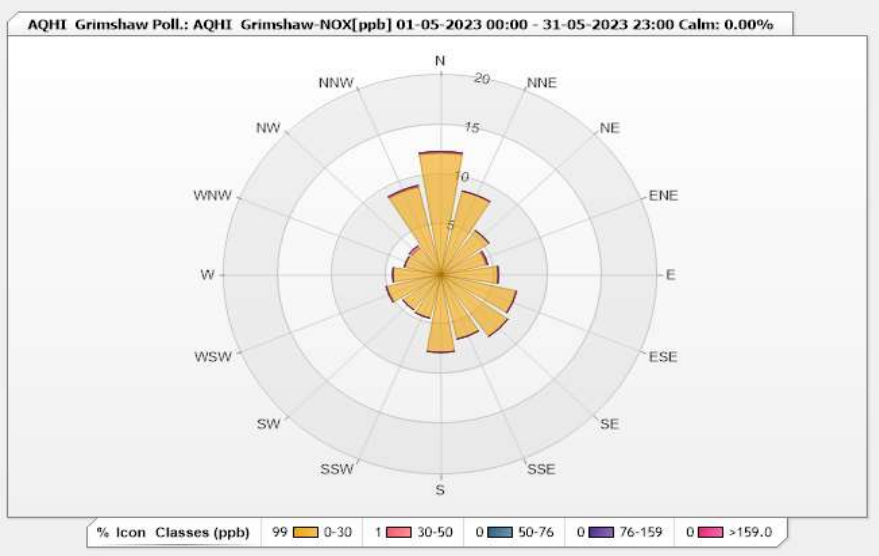


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 93.55% Calm Avg: 0.00 [ppm]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	12.21	0.14	0	0	0	12.35
NNE	8.62	0	0	0	0	8.62
NE	5.46	0	0	0	0	5.46
ENE	4.31	0.14	0	0	0	4.45
E	5.32	0	0	0	0	5.32
ESE	7.18	0	0	0	0	7.18
SE	7.61	0	0	0	0	7.61
SSE	6.61	0	0	0	0	6.61
S	7.76	0	0	0	0	7.76
SSW	4.45	0	0	0	0	4.45
SW	4.31	0	0	0	0	4.31
WSW	5.17	0	0	0	0	5.17
W	4.45	0	0	0	0	4.45
WNW	3.45	0	0	0	0	3.45
NW	3.3	0.29	0	0	0	3.59
NNW	9.05	0.14	0	0	0	9.19
Summary	99.26	0.71	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

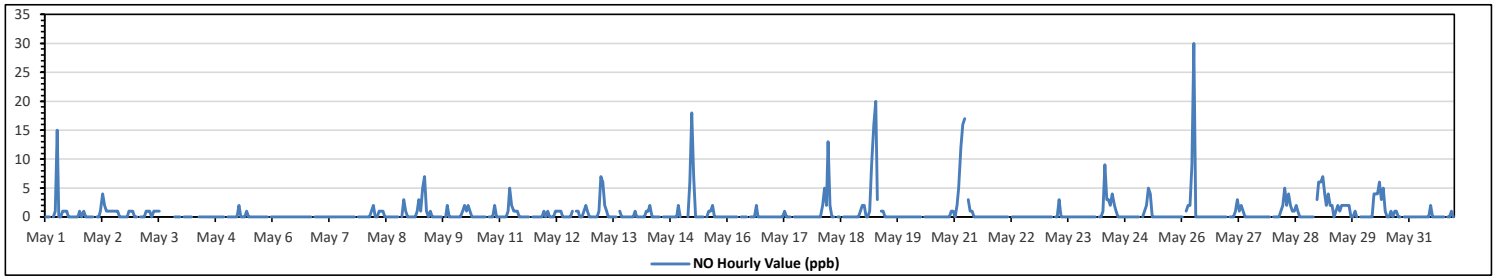
NITRIC OXIDE (NO) in ppb

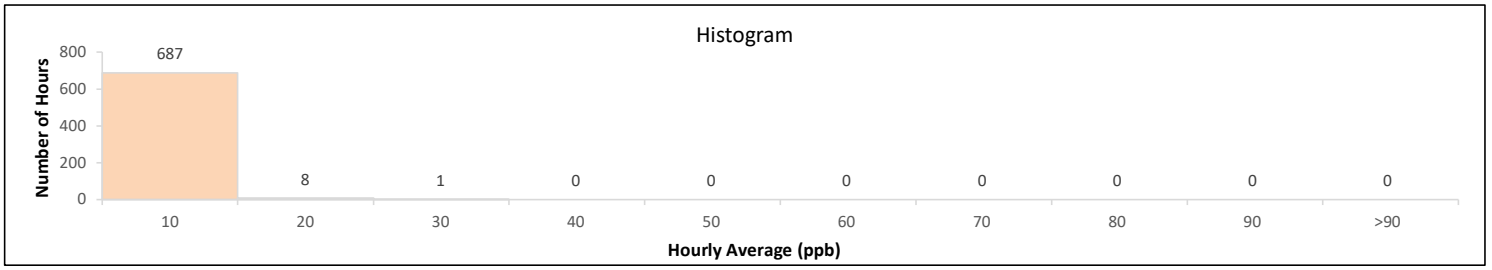
Maximum Hourly Value:	30	ppb	on May 26 at hr 6	Hours in Service:	744
Maximum Daily Value:	2.5	ppb	on May 21	Hours of Data:	696
Minimum Hourly Value:	0	ppb	on May 1 at hr 0	Hours of Missing Data:	8
Minimum Daily Value:	0.0	ppb	on May 4	Hours of Calibration:	40
Monthly Average:	0.7	ppb		Operational Uptime:	98.9

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0	0	0	S	0	1	15	0	0	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	15	0.9
May 2	0	0	S	0	0	1	4	2	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	4	0.7
May 3	0	S	0	0	0	1	1	1	0	1	1	1	1	C	C	C	C	C	C	C	0	0	0	0	0	1	NA
May 4	S	0	0	0	0	0	Y	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0.0
May 5	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	2	0.1
May 6	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
May 7	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
May 8	0	0	0	0	1	2	0	0	1	1	1	0	0	0	0	0	0	0	0	S	0	3	1	0	0	3	0.4
May 9	0	0	0	0	1	3	1	5	7	1	0	1	0	0	0	0	0	0	S	0	2	0	0	0	0	7	0.9
May 10	0	0	0	0	1	2	1	2	1	0	0	0	0	0	0	0	0	S	0	0	0	2	0	0	0	2	0.4
May 11	0	0	0	0	1	5	2	1	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0	5	0.5
May 12	0	1	0	0	0	1	1	1	1	0	0	0	0	0	1	S	1	1	0	0	1	2	1	0	0	2	0.5
May 13	0	0	0	0	1	7	6	2	1	0	0	0	0	0	S	1	0	0	0	0	0	0	0	1	0	7	0.8
May 14	0	0	0	0	0	1	1	2	0	0	0	0	0	S	0	0	0	0	0	0	0	0	2	0	0	2	0.3
May 15	K	K	K	0	6	18	7	0	0	0	0	0	S	0	1	1	2	0	0	0	0	0	0	0	0	18	1.8
May 16	0	0	0	0	0	0	NRM	0	0	0	0	S	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.1
May 17	0	0	0	0	0	0	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
May 18	0	0	2	5	2	13	2	0	0	S	0	0	NRM	0	0	0	0	0	0	0	0	0	1	2	0	13	1.2
May 19	2	0	0	1	9	16	20	3	S	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	2.3
May 20	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.1
May 21	0	2	5	12	16	17	S	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	**2.5**
May 22	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
May 23	0	0	0	0	S	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.1
May 24	0	0	0	S	0	0	1	9	3	3	2	4	2	1	0	0	0	0	0	0	0	0	0	0	0	9	1.1
May 25	0	0	S	0	1	2	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.5
May 26	0	S	1	2	2	9	**30**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**30**	1.9
May 27	S	0	0	0	1	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	3	0.4
May 28	0	0	0	0	1	2	5	2	4	2	1	1	2	1	0	0	0	0	0	0	0	0	S	3	0	5	1.0
May 29	6	6	7	4	2	4	2	2	0	1	2	1	2	2	2	2	2	0	0	1	0	S	0	0	0	7	2.1
May 30	0	0	0	0	0	4	4	4	6	3	5	1	0	0	1	0	1	1	0	0	S	0	0	0	0	6	1.3
May 31	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	S	0	0	1	0	0	2	0.1
Diurnal Maximum	6	6	7	12	16	18	30	9	7	3	5	4	2	2	2	2	2	1	1	1	2	3	2	3			
Diurnal Average	0.3	0.3	0.5	0.8	1.5	3.7	4.0	1.7	1.0	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.2	0.3	0.3	0.3			

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.



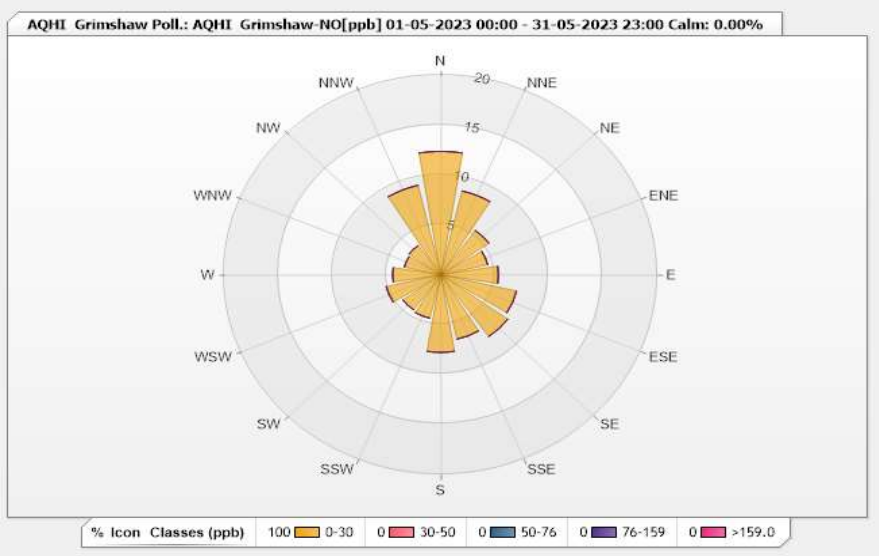


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 93.55% Calm Avg: 0.00 [ppm]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	12.36	0	0	0	0	12.36
NNE	8.62	0	0	0	0	8.62
NE	5.46	0	0	0	0	5.46
ENE	4.45	0	0	0	0	4.45
E	5.32	0	0	0	0	5.32
ESE	7.18	0	0	0	0	7.18
SE	7.61	0	0	0	0	7.61
SSE	6.61	0	0	0	0	6.61
S	7.76	0	0	0	0	7.76
SSW	4.45	0	0	0	0	4.45
SW	4.31	0	0	0	0	4.31
WSW	5.17	0	0	0	0	5.17
W	4.45	0	0	0	0	4.45
WNW	3.45	0	0	0	0	3.45
NW	3.59	0	0	0	0	3.59
NNW	9.2	0	0	0	0	9.2
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 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

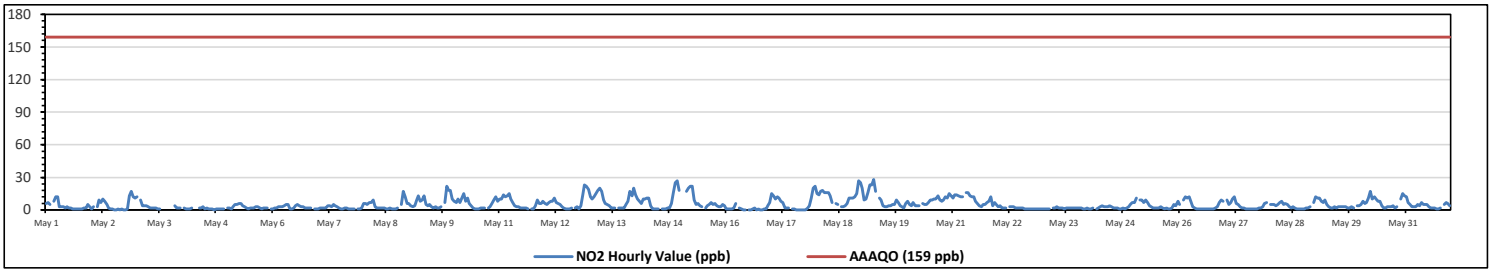
Maximum Hourly Value:	28	ppb	on May 19 at hr 6	Hours in Service:	744
Maximum Daily Value:	12.3	ppb	on May 18	Hours of Data:	696
Minimum Hourly Value:	0	ppb	on May 2 at hr 12	Hours of Missing Data:	8
Minimum Daily Value:	1.3	ppb	on May 4	Hours of Calibration:	40
Monthly Average:	5.3	ppb		Operational Uptime:	98.9

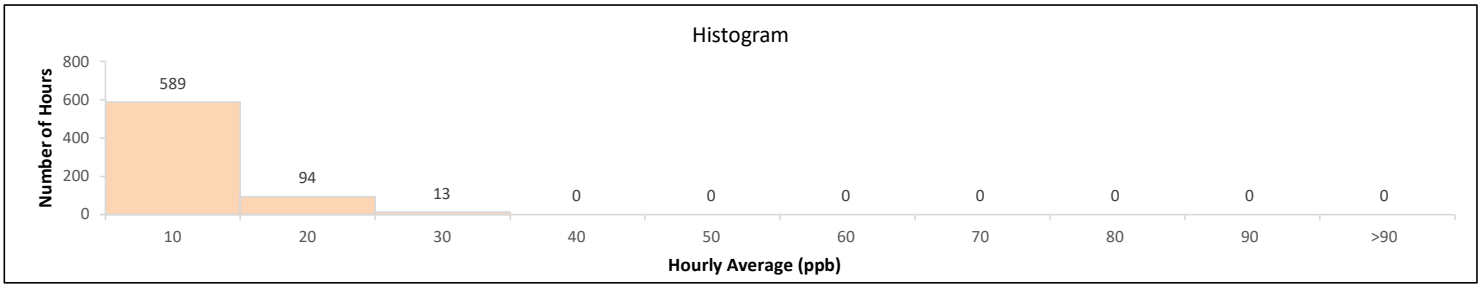
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	6	7	5	S	8	12	12	3	3	3	2	3	2	2	1	1	1	1	1	1	2	2	5	3	1	12	3.7
May 2	1	3	S	3	9	7	10	8	5	2	1	1	0	0	1	0	1	0	0	1	13	17	12	11	0	17	4.6
May 3	12	S	9	4	4	4	3	2	2	2	2	1	1	C	C	C	C	C	C	C	4	2	2	2	1	12	NA
May 4	S	2	1	1	1	2	Y	Y	Y	2	2	3	1	2	1	1	1	0	1	1	1	1	1	S	0	3	1.3
May 5	2	2	1	3	5	5	6	6	4	3	2	1	2	2	2	3	3	2	1	2	2	2	S	1	1	6	2.7
May 6	1	2	2	3	3	3	4	5	5	1	1	2	4	5	4	3	3	2	2	2	2	S	1	1	1	5	2.7
May 7	1	2	2	2	2	4	4	3	5	4	3	2	1	1	2	2	1	1	1	1	S	1	1	2	1	5	2.1
May 8	6	6	5	7	7	9	3	2	2	2	2	2	1	1	2	1	1	1	2	S	5	17	12	6	1	17	4.4
May 9	6	4	3	4	9	13	8	9	13	5	4	5	3	2	3	2	2	3	S	7	22	18	18	10	2	22	7.5
May 10	8	7	10	7	11	15	8	11	6	4	2	1	1	1	2	2	2	S	2	3	6	9	12	8	1	15	6.0
May 11	10	10	14	12	13	15	10	7	4	3	3	2	2	2	2	1	S	1	1	4	9	6	6	8	1	15	6.3
May 12	6	5	7	8	8	11	7	6	5	3	2	1	1	1	2	S	2	3	1	4	14	23	22	19	1	23	7.0
May 13	12	10	12	15	18	20	17	9	6	5	4	2	2	2	S	2	2	2	2	5	8	17	13	20	2	20	8.9
May 14	14	10	8	6	10	10	11	11	4	1	1	1	1	S	1	1	1	2	2	6	16	25	27	18	1	27	8.1
May 15	K	K	K	17	20	22	22	9	5	6	4	3	S	2	4	5	7	5	6	4	3	3	5	4	2	22	7.8
May 16	1	1	1	1	2	6	NRM	2	1	0	0	S	0	0	1	2	0	1	0	0	1	1	4	7	0	7	1.5
May 17	15	13	10	12	11	8	7	2	2	2	S	1	1	0	0	0	0	0	0	2	4	11	20	22	0	22	6.2
May 18	15	14	17	18	16	16	16	13	7	S	6	5	NRM	3	3	4	6	11	11	11	12	15	27	25	3	27	12.3
May 19	20	9	10	16	23	23	28	17	S	11	9	4	3	3	4	4	5	5	9	7	4	3	2	6	2	28	9.8
May 20	8	5	4	7	4	4	4	S	6	5	5	7	9	9	10	10	13	9	8	9	12	11	15	13	4	15	8.1
May 21	11	14	14	13	12	12	S	16	16	13	12	12	8	6	4	3	5	5	7	8	12	4	7	5	3	16	9.5
May 22	3	4	2	2	2	S	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	4	1.8
May 23	1	1	1	1	S	2	2	3	2	2	2	1	2	2	2	2	2	2	2	2	2	1	1	2	1	3	1.7
May 24	1	1	2	S	1	2	3	4	3	3	3	4	3	2	2	2	1	1	2	1	2	3	5	7	1	7	2.5
May 25	7	11	S	9	9	7	9	7	4	3	2	2	2	2	3	2	1	2	1	1	2	5	4	8	1	11	4.5
May 26	5	S	9	12	11	12	8	3	2	1	1	1	1	1	1	1	1	1	1	2	3	7	9	8	1	12	4.4
May 27	S	9	5	7	10	12	6	5	3	2	2	1	1	1	1	1	1	1	2	2	3	6	7	S	1	12	4.0
May 28	5	5	5	4	5	7	8	5	6	5	3	2	3	2	1	1	1	1	1	2	2	3	S	7	1	8	3.7
May 29	12	11	11	8	7	9	5	3	2	2	3	2	3	3	3	3	3	2	2	3	2	S	4	4	2	12	4.7
May 30	5	8	6	7	11	17	10	12	10	8	8	4	2	2	3	3	3	4	2	3	S	10	15	13	2	17	7.2
May 31	12	7	5	3	3	3	5	4	7	5	5	5	3	2	2	2	1	1	2	S	5	7	6	4	1	12	4.3
Diurnal Maximum	20	14	17	18	23	23	28	17	16	13	12	12	9	9	10	10	13	11	11	11	22	25	27	25			
Diurnal Average	7.4	6.5	6.5	7.3	8.5	9.7	8.5	6.6	4.9	3.7	3.3	2.8	2.2	2.2	2.3	2.2	2.4	2.4	2.5	3.4	6.0	8.0	9.1	8.4			

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

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

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



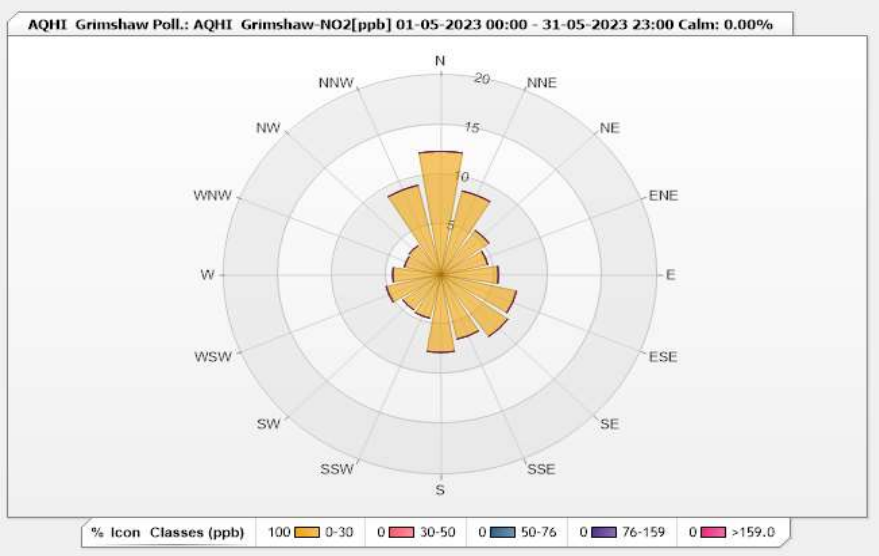


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 93.55% Calm Avg: 0.00 [ppm]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	12.36	0	0	0	0	12.36
NNE	8.62	0	0	0	0	8.62
NE	5.46	0	0	0	0	5.46
ENE	4.45	0	0	0	0	4.45
E	5.32	0	0	0	0	5.32
ESE	7.18	0	0	0	0	7.18
SE	7.61	0	0	0	0	7.61
SSE	6.61	0	0	0	0	6.61
S	7.76	0	0	0	0	7.76
SSW	4.45	0	0	0	0	4.45
SW	4.31	0	0	0	0	4.31
WSW	5.17	0	0	0	0	5.17
W	4.45	0	0	0	0	4.45
WNW	3.45	0	0	0	0	3.45
NW	3.59	0	0	0	0	3.59
NNW	9.2	0	0	0	0	9.2
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

OZONE (O_3) in ppb

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

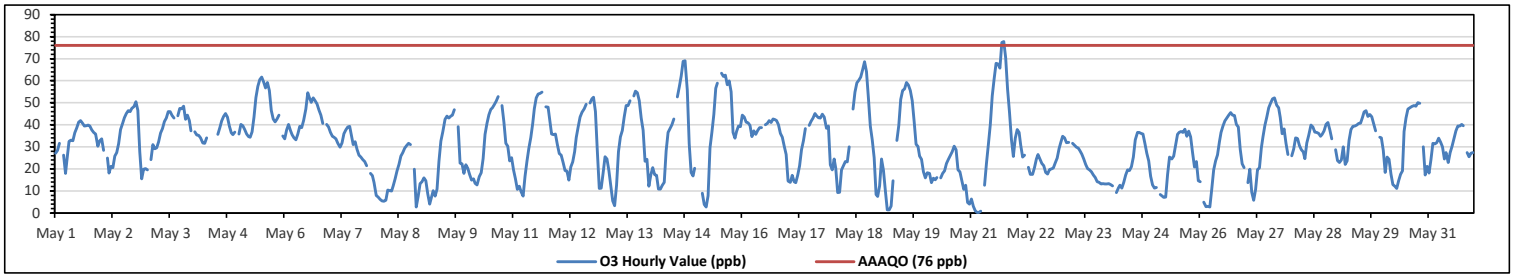
Number of 1-Hour Exceedances: 2

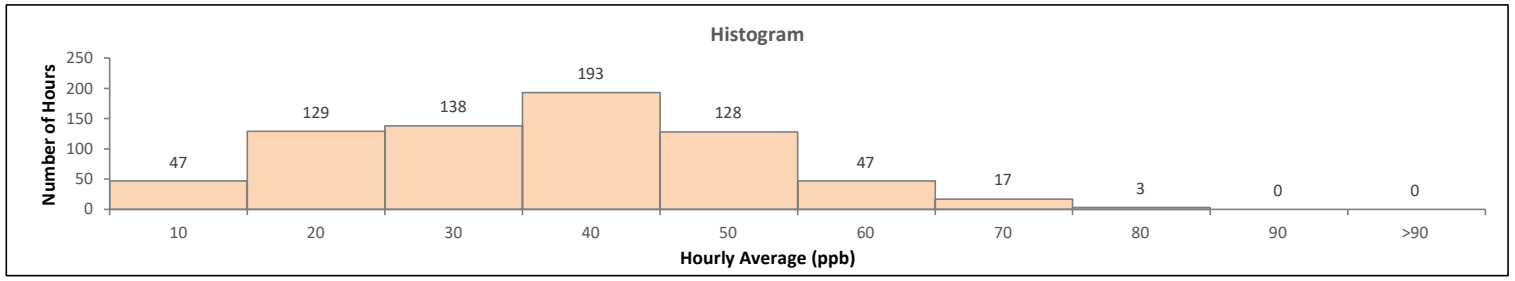
Maximum Hourly Value:	77.8	ppb	on May 21 at hr 17	Hours in Service:	744
Maximum Daily Value:	45.9	ppb	on May 5	Hours of Data:	702
Minimum Hourly Value:	0.2	ppb	on May 21 at hr 3	Hours of Missing Data:	4
Minimum Daily Value:	15.5	ppb	on May 8	Hours of Calibration:	38
Monthly Average:	31.5	ppb		Operational Uptime:	99.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	27.1	28.4	31.5	S	26.3	18	24.8	32.5	33.1	32.7	36.4	38.6	41.2	42	40.8	39.4	39.6	39.9	39.4	37.7	36.5	35.8	30.4	32.7	18.0	42.0	34.1
May 2	33.7	28.4	S	25	18.1	21.2	20.6	25.7	27.5	31.4	37.9	40.5	43.3	45.1	46.4	46.1	47.5	48.3	50.5	46.6	27.9	15.5	19.8	20.2	15.5	50.5	33.4
May 3	19.6	S	24.2	31	29.2	29.6	32.3	36.3	38.3	41.5	43.2	46	46.1	44.2	43	Y	44.1	47.5	47.2	48.5	42.5	44.3	42	37.2	19.6	48.5	39.0
May 4	S	36.8	35.4	35.3	34	31.8	31.5	34.1	C	C	C	C	C	35.7	38.6	41.8	43.8	45.1	43.5	39.4	36.4	35.5	36.7	S	31.5	45.1	NA
May 5	35.9	40.3	39.6	37.9	35.8	34.7	34.4	36.8	43.6	52.4	57.4	60.6	61.7	59.5	56.8	59.2	55.5	46.6	42.7	41.3	42.7	44.3	S	35	34.4	61.7	**45.9**
May 6	33.7	37.8	40.1	37.5	35.5	34	33.3	35.9	39.3	38.7	42	47.1	54.5	52.4	50.2	52.3	50.9	49.5	46.7	44.4	40.7	S	40.1	39.1	33.3	54.5	42.4
May 7	36.6	34.9	34.5	33.6	31.6	29.9	31.8	36	37.7	39	39.3	35.5	31	32.4	28.9	26.3	25.3	24.2	23.3	21.4	S	18	16.9	13.9	13.9	39.3	29.7
May 8	8	7.2	6.2	5.4	5.3	5.8	10.4	10.2	9.9	12.3	15.5	19.2	22.1	25.9	27.5	29.5	30.6	31.6	31	S	19.8	2.8	7.5	13.3	2.8	31.6	**15.5**
May 9	14.2	16	14.7	8.7	4	7.4	10.1	7.7	10.9	23.5	32.6	36.8	42.5	43.9	43.2	43.9	44.4	46.9	S	39.2	22.6	22.3	18	21.9	4.0	46.9	25.0
May 10	20.3	17.4	14.9	15.4	13.5	12.8	16.5	18.3	24.7	35.6	40.7	44.6	47	47.8	49.2	50.8	52.8	S	48.8	41.2	31.5	30.4	23.6	25.1	12.8	52.8	31.4
May 11	19.6	15.5	10.7	12.1	9.5	7.7	16.7	23.5	29.4	34.2	40.6	47.3	52.2	54	54.3	54.9	S	48.2	48	41.3	35.8	35.5	35.8	31	7.7	54.9	32.9
May 12	27	26.2	22.8	19.3	19	14.9	20.9	23.2	27.9	34.2	39	43.5	45.7	47.2	49.3	S	49.9	51.8	52.5	45.9	27.9	11.1	11.4	18.1	11.1	52.5	31.7
May 13	25.5	24.6	19.3	12.3	5.4	3.3	12.6	27.9	34.6	37.5	43.7	48.8	48.7	51	S	53	55.3	54.5	50.9	43.1	37.6	23.5	24.4	12.1	3.3	55.3	32.6
May 14	17.3	20.6	17.4	17.2	10.8	10.8	12.6	13.9	28.3	36.5	38.3	40	42.6	S	52.7	57.2	62.1	68.7	69.1	56	31.4	18.4	16.8	20.3	10.8	69.1	33.0
May 15	K	K	K	9	3.8	2.7	7.8	29.6	36.7	44.7	56.6	59	S	63.4	62	62.5	58.2	59.9	55	36.5	33.9	37	39.5	39.2	2.7	63.4	39.9
May 16	44.4	43.5	41.2	40.9	39.8	34.7	37.2	35.7	37.5	38.8	38.7	S	40	40.6	42	41.1	42.7	42.3	42	40	36.1	34.4	30.3	26.5	26.5	44.4	38.7
May 17	14.5	13.9	17	14.2	13.7	17	21.5	28.6	32.8	38.3	S	39.7	41.7	43.2	45.1	44	43.3	43	44.8	43.6	38.4	39.4	21.9	19.5	13.7	45.1	31.3
May 18	24.5	20.3	9.3	9.4	19.5	21.4	23.4	23.2	30.1	S	47.1	54.9	59.1	60.2	61.6	65.1	68.6	64.1	52.3	39.5	33.2	25.1	8.5	7.5	7.5	68.6	36.0
May 19	12.3	24.5	19.4	10.1	1.5	1.4	3.2	14.7	S	33	39.7	51.5	55.5	56.3	59.2	58	55.5	50.9	41.6	31.2	30.2	25.8	24.4	18.8	1.4	59.2	31.2
May 20	16	18.3	17.9	13.8	15.9	15.1	16.1	S	16	18	19.2	22.4	24.4	26.1	27.8	30.4	28.7	19.5	18.8	15.3	10.7	12.5	4.7	4	4.0	30.4	17.9
May 21	6.4	3.1	0.9	0.2	0.3	0.8	S	12.5	22.6	31.1	40.3	53	61	67.9	67.7	65.7	77.4	**77.8**	70.4	56.1	45.6	33.4	25.6	33.9	**0.2**	**77.8**	37.1
May 22	37.9	36.6	30.8	25.4	26.3	S	20.7	17.6	17.5	20.6	24.6	26.5	24.6	22.4	21.4	18.4	17.7	19.7	20.1	20.5	22.7	24.9	29.3	31.9	17.5	37.9	24.3
May 23	34.8	34.1	31.9	32.1	S	31.6	30.7	29.8	29.4	28.2	26.7	24.6	22.1	20.2	19.6	18.7	17.3	16.1	14.1	13.9	13.2	13.4	13.2	13.2	13.2	34.8	23.0
May 24	13.3	12.9	12.3	S	9.3	11.4	12.5	11.4	13.9	17.3	19.6	19.3	21	25.4	33.2	36.5	36.6	36.2	35.9	31.6	27.1	23.6	16.6	12.8	9.3	36.6	21.3
May 25	11.4	11.6	S	8.3	7.8	7.1	7.2	17.6	25.3	24.6	25.7	30.7	35.7	36.5	36.9	36.5	38	34.9	37.1	34.6	27.4	20.9	23.4	14.7	7.1	38.0	24.1
May 26	14.2	S	4.9	2.9	3.1	2.7	10.9	19.5	23.7	26.4	32.4	36.5	39.5	41.8	43	44.3	45.6	44.5	44.2	40.1	39	28.9	22.3	20.6	2.7	45.6	27.4
May 27	S	13.8	19.8	9.4	5.8	10.7	19.7	20.5	29.6	34.6	39.7	43.6	47.7	49.9	51.9	52.2	49	47.7	43.4	36	38.2	31.6	26.6	S	5.8	52.2	32.8
May 28	26	29.1	34.1	33.8	30.6	28.8	27.7	24.7	31.8	35.3	39.9	39	36.7	36.5	36.1	34.9	35.7	37.4	40.2	41	37.8	33.7	S	28.8	24.7	41.0	33.9
May 29	23.8	22.8	24.1	30	22.1	23.7	32.9	37.9	39.3	39.5	39.9	40.6	40.8	43.4	45.8	46.5	43.8	44.7	43.7	40.5	37.3	S	34.3	34.1	22.1	46.5	36.2
May 30	28.4	18.4	25.4	24.3	17.7	13	12.1	11.1	14.6	17.5	19.2	37	43.1	47.1	47.8	48.3	48.7	48.4	50	49.7	S	30	17.3	21.2	11.1	50.0	30.0
May 31	18.1	24.2	31.6	31.3	31.9	33.9	32.2	30	24.6	27.4	22.8	27.5	30.3	33.8	37.4	39.4	39.5	40.2	39.6	S	27.5	25.5	27.2	27.5	18.1	40.2	30.6
Diurnal Maximum	44.4	43.5	41.2	40.9	39.8	34.7	37.2	37.9	43.6	52.4	57.4	60.6	61.7	67.9	67.7	65.7	77.4	77.8	70.4	56.1	45.6	44.3	42.0	39.2			
Diurnal Average	23.0	23.6	22.6	20.2	17.6	17.3	20.8	24.2	28.0	31.9	35.8	39.8	41.4	43.2	44.0	44.7	44.9	44.3	42.9	38.5	32.1	26.8	23.7	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.



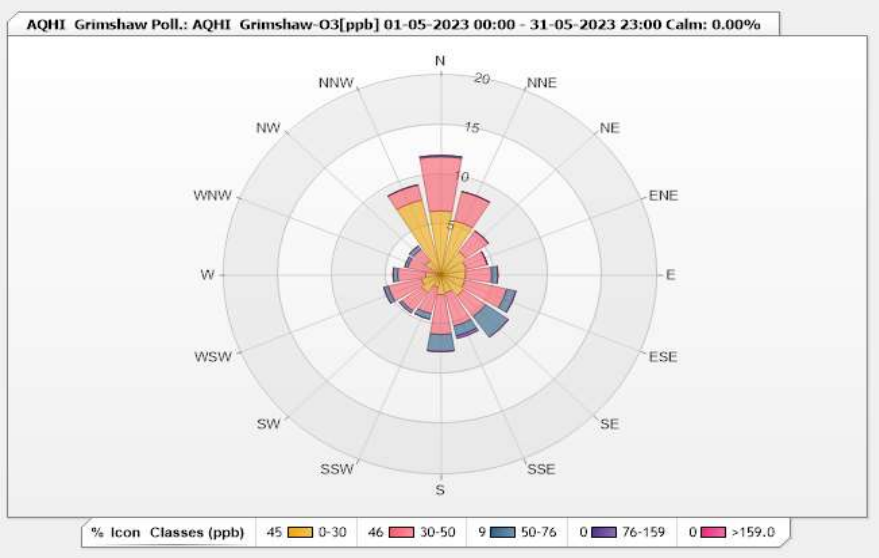


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 94.35% Calm Avg: 0.00 [ppm]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	6.41	5.41	0.14	0	0	11.96
NNE	5.56	2.99	0	0	0	8.55
NE	2.85	2.56	0	0	0	5.41
ENE	2.42	1.99	0	0	0	4.41
E	2.28	2.42	0.57	0	0	5.27
ESE	2.28	3.99	0.85	0	0	7.12
SE	2.56	2.56	2.56	0	0	7.68
SSE	1.85	3.42	1	0.28	0	6.55
S	1.99	3.99	1.71	0	0	7.69
SSW	1.28	2.71	0.57	0	0	4.56
SW	2.14	2.28	0.28	0	0	4.7
WSW	1.85	3.13	0.43	0	0	5.41
W	1.42	2.56	0.43	0	0	4.41
WNW	0.28	2.85	0.28	0	0	3.41
NW	1.71	1.42	0.43	0	0	3.56
NNW	7.69	1.57	0	0	0	9.26
Summary	44.57	45.85	9.25	0.28	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

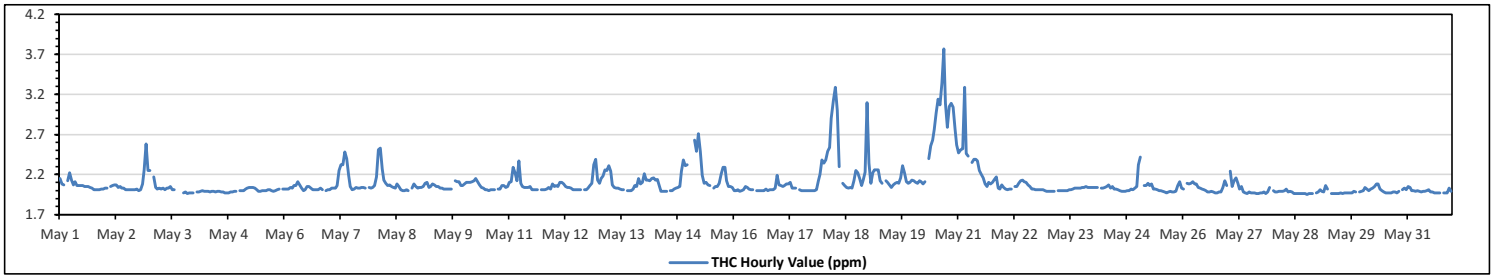
TOTAL HYDROCARBONS (THC) in ppm

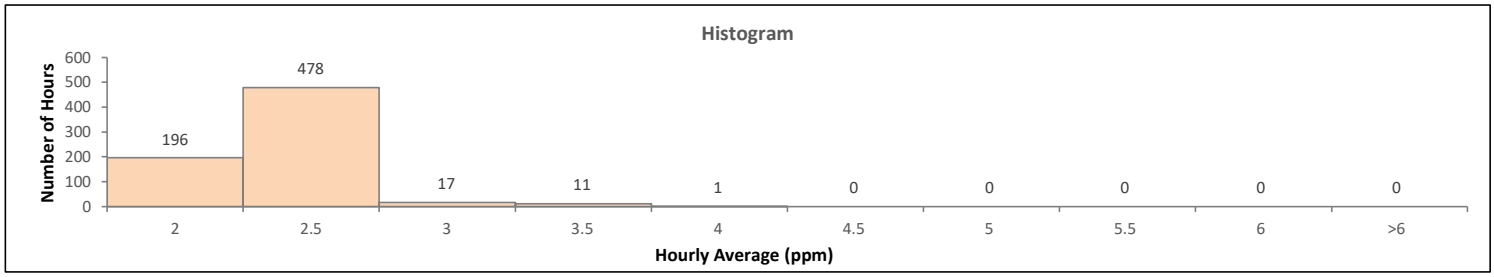
Maximum Hourly Value:	3.77	ppm	on May 20 at hr 16	Hours in Service:	744
Maximum Daily Value:	2.69	ppm	on May 20	Hours of Data:	703
Minimum Hourly Value:	1.95	ppm	on May 28 at hr 18	Hours of Missing Data:	3
Minimum Daily Value:	1.97	ppm	on May 28	Hours of Calibration:	38
Monthly Average:	2.09	ppm		Operational 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			
May 1	2.15	2.08	2.07	S	2.12	2.22	2.13	2.07	2.11	2.06	2.06	2.06	2.06	2.05	2.05	2.05	2.04	2.03	2.01	2.01	2.01	2.01	2.02	2.02	2.01	2.22	2.06
May 2	2.03	2.03	S	2.05	2.06	2.07	2.07	2.04	2.05	2.03	2.03	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.00	2.01	2.08	2.26	2.58	2.25	2.00	2.58	2.07
May 3	2.25	S	2.17	2.04	2.02	2.03	2.02	2.03	2.01	2.03	2.03	2.05	2.01	2.01	C	C	C	C	1.97	1.98	1.96	1.97	1.97	1.97	1.96	2.25	2.03
May 4	S	1.98	1.98	1.99	2.00	1.99	1.99	1.99	1.98	1.99	1.99	1.98	1.99	1.99	1.98	1.98	1.97	1.97	1.97	1.98	1.98	1.99	1.99	S	1.97	2.00	1.98
May 5	2.00	2.00	2.00	2.02	2.03	2.04	2.04	2.04	2.03	2.01	1.99	1.99	2.00	2.00	2.00	2.01	2.01	2.00	1.99	2.00	2.01	2.02	S	2.02	1.99	2.04	2.01
May 6	2.02	2.02	2.02	2.04	2.03	2.06	2.06	2.11	2.07	2.03	2.00	2.01	2.05	2.05	2.03	2.01	2.01	2.01	2.01	2.03	2.01	S	2.00	2.01	2.00	2.11	2.03
May 7	2.01	2.03	2.03	2.03	2.06	2.25	2.32	2.32	2.48	2.40	2.19	2.05	2.01	2.02	2.04	2.03	2.03	2.04	2.04	2.03	S	2.04	2.03	2.04	2.01	2.48	2.11
May 8	2.06	2.17	2.51	2.53	2.27	2.13	2.09	2.06	2.07	2.05	2.04	2.03	2.08	2.05	2.01	2.00	2.00	2.01	2.00	S	2.03	2.08	2.05	2.03	2.00	2.53	2.10
May 9	2.04	2.04	2.05	2.09	2.10	2.04	2.05	2.08	2.07	2.05	2.05	2.03	2.03	2.02	2.02	2.02	2.02	2.02	S	2.12	2.11	2.11	2.06	2.06	2.02	2.12	2.06
May 10	2.08	2.10	2.10	2.10	2.11	2.12	2.15	2.11	2.07	2.04	2.03	2.01	2.01	2.00	2.01	2.01	2.01	S	2.02	2.02	2.06	2.06	2.04	2.05	2.00	2.15	2.06
May 11	2.10	2.11	2.29	2.22	2.12	2.37	2.09	2.05	2.04	2.04	2.04	2.05	2.01	2.01	2.01	2.01	S	2.01	2.01	2.01	2.02	2.04	2.02	2.08	2.01	2.37	2.08
May 12	2.05	2.06	2.05	2.10	2.10	2.08	2.05	2.04	2.04	2.03	2.01	2.01	2.01	2.01	2.01	S	2.01	2.01	2.03	2.06	2.09	2.32	2.39	2.13	2.01	2.39	2.07
May 13	2.09	2.15	2.18	2.26	2.25	2.31	2.24	2.07	2.04	2.03	2.03	2.02	2.01	2.01	S	2.00	2.00	2.00	2.02	2.06	2.05	2.15	2.08	2.10	2.00	2.31	2.09
May 14	2.21	2.13	2.13	2.12	2.15	2.16	2.13	2.14	2.07	1.99	1.99	1.99	1.99	S	2.00	2.00	2.02	2.03	2.04	2.05	2.24	2.38	2.31	2.32	1.99	2.38	2.11
May 15	K	K	K	2.63	2.49	2.71	2.49	2.19	2.09	2.10	2.07	2.06	S	2.03	2.05	2.05	2.09	2.20	2.29	2.29	2.12	2.05	2.05	2.04	2.03	2.71	2.20
May 16	2.00	2.00	2.01	1.99	2.00	2.01	2.05	2.04	2.02	2.01	2.01	S	2.00	2.00	2.00	2.00	2.00	2.02	2.00	2.01	2.01	2.01	2.03	2.19	1.99	2.19	2.02
May 17	2.07	2.06	2.05	2.06	2.08	2.08	2.10	2.03	2.03	2.03	S	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.12	2.20	2.38	2.00	2.38	2.06
May 18	2.34	2.38	2.49	2.54	2.90	3.13	3.29	3.00	2.30	S	2.09	2.06	2.04	2.03	2.04	2.03	2.12	2.25	2.22	2.15	2.06	2.13	2.23	3.10	2.03	3.29	2.39
May 19	2.34	2.09	2.22	2.26	2.26	2.26	2.12	2.09	S	2.12	2.10	2.07	2.04	2.07	2.09	2.10	2.09	2.16	2.31	2.22	2.11	2.09	2.10	2.13	2.04	2.34	2.15
May 20	2.12	2.10	2.09	2.12	2.11	2.08	2.11	S	2.40	2.56	2.63	2.76	2.97	3.14	3.07	3.34	**3.77**	3.09	2.79	3.05	3.09	3.04	2.77	2.57	2.08	**3.77**	**2.69**
May 21	2.47	2.51	2.52	3.29	2.46	2.43	S	2.35	2.39	2.39	2.37	2.25	2.20	2.16	2.08	2.05	2.10	2.08	2.10	2.14	2.17	2.03	2.02	2.07	2.02	3.29	2.29
May 22	2.04	2.02	2.01	2.02	2.02	S	2.05	2.05	2.09	2.12	2.13	2.11	2.10	2.07	2.05	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.00	1.99	1.99	2.13	2.04
May 23	1.99	1.99	1.99	1.99	S	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.03	2.03	2.03	2.04	2.04	2.05	2.04	2.04	2.04	1.99	2.05	2.02
May 24	2.04	2.04	2.04	S	2.03	2.03	2.04	2.05	2.07	2.03	2.05	2.02	2.02	2.01	2.00	1.99	1.99	1.99	2.00	2.00	2.02	2.01	2.03	2.05	1.99	2.07	2.02
May 25	2.32	2.42	S	2.06	2.06	2.09	2.06	2.08	2.02	2.02	2.01	2.00	2.00	1.99	1.98	1.97	1.98	1.99	1.98	1.98	1.99	2.06	2.11	2.03	1.97	2.42	2.05
May 26	2.02	S	2.09	2.08	2.09	2.11	2.08	2.08	2.04	2.03	2.02	2.01	2.00	1.98	1.98	1.99	1.98	1.97	1.97	1.98	1.98	2.04	2.12	2.06	1.97	2.12	2.03
May 27	S	2.24	2.05	2.12	2.16	2.09	2.02	2.05	1.98	1.97	1.96	1.98	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.98	1.96	1.98	2.04	S	1.96	2.24	2.02
May 28	2.00	1.98	1.98	1.99	1.99	1.99	2.00	2.02	1.98	1.99	1.98	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.96	S	1.97	1.95	2.02	1.97
May 29	1.98	2.01	1.99	1.98	2.06	2.02	NRM	1.96	1.96	1.96	1.96	1.96	1.97	1.96	1.97	1.97	1.97	1.97	1.97	1.99	1.98	S	1.98	1.99	1.96	2.06	1.98
May 30	2.00	2.04	2.02	2.00	2.02	2.03	2.05	2.08	2.08	2.02	2.00	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.97	1.99	S	2.01	2.03	2.01	1.97	2.08	2.01
May 31	2.05	2.04	2.00	2.00	1.99	2.00	1.99	1.98	1.99	1.99	2.00	2.01	1.98	1.98	1.97	1.97	1.97	1.97	S	1.97	1.97	1.97	2.03	1.99	1.97	2.05	1.99
Diurnal Maximum	2.47	2.51	2.52	3.29	2.90	3.13	3.29	3.00	2.48	2.56	2.63	2.76	2.97	3.14	3.07	3.34	3.77	3.09	2.79	3.05	3.09	3.04	2.77	3.10			
Diurnal Average	2.10	2.10	2.11	2.16	2.14	2.16	2.13	2.11	2.09	2.07	2.06	2.05	2.05	2.05	2.05	2.05	2.07	2.06	2.06	2.07	2.07	2.10	2.11	2.13			

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.



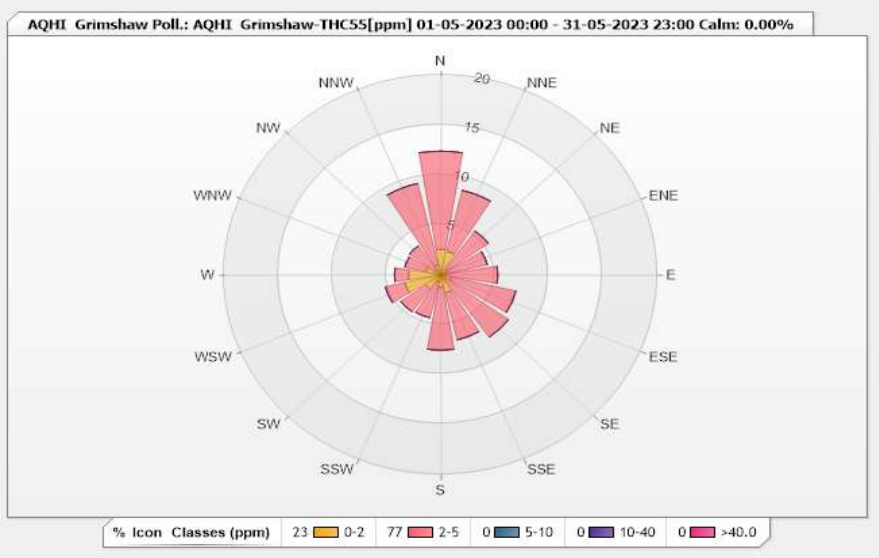


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.56	9.82	0	0	0	12.38
NNE	2.42	6.26	0	0	0	8.68
NE	0.71	4.69	0	0	0	5.4
ENE	0.57	3.84	0	0	0	4.41
E	0.14	5.12	0	0	0	5.26
ESE	1	6.12	0	0	0	7.12
SE	0.57	7.11	0	0	0	7.68
SSE	1.85	4.84	0	0	0	6.69
S	1.28	6.26	0	0	0	7.54
SSW	0.71	3.7	0	0	0	4.41
SW	1.71	2.84	0	0	0	4.55
WSW	3.41	1.85	0	0	0	5.26
W	2.99	1.28	0	0	0	4.27
WNW	1.42	1.99	0	0	0	3.41
NW	0.57	2.99	0	0	0	3.56
NNW	1	8.39	0	0	0	9.39
Summary	22.91	77.1	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

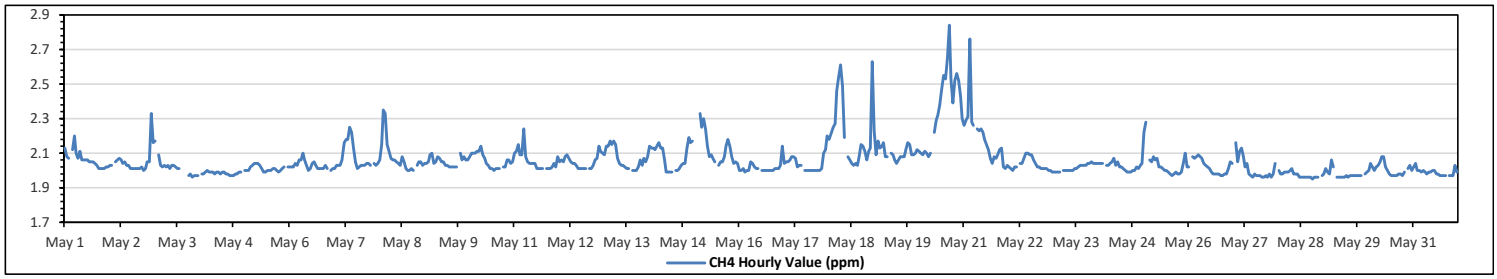
METHANE (CH4) in ppm

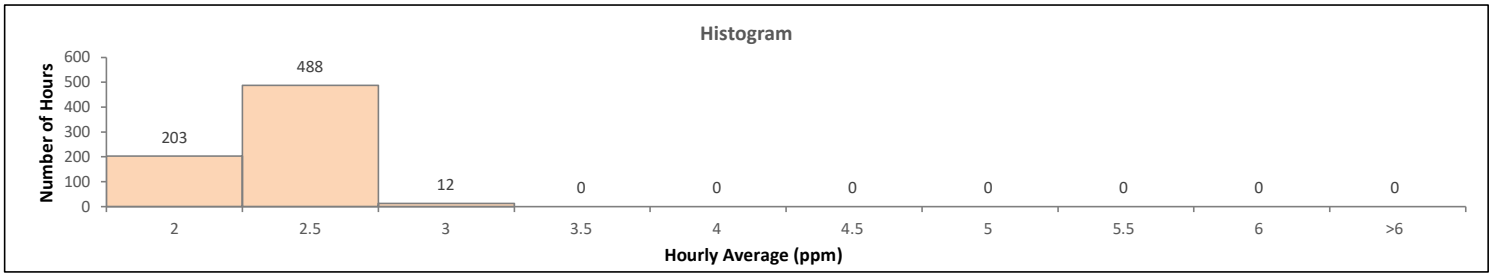
Maximum Hourly Value:	2.84	ppm	on May 20 at hr 16	Hours in Service:	744
Maximum Daily Value:	2.36	ppm	on May 20	Hours of Data:	703
Minimum Hourly Value:	1.95	ppm	on May 28 at hr 18	Hours of Missing Data:	4
Minimum Daily Value:	1.97	ppm	on May 28	Hours of Calibration:	37
Monthly Average:	2.06	ppm		Operational Uptime:	99.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	2.13	2.08	2.07	S	2.12	2.20	2.10	2.07	2.11	2.06	2.06	2.06	2.06	2.05	2.05	2.05	2.04	2.03	2.01	2.01	2.01	2.01	2.02	2.02	2.01	2.20	2.06
May 2	2.03	2.03	S	2.05	2.06	2.07	2.06	2.04	2.05	2.03	2.03	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.00	2.01	2.05	2.05	2.33	2.16	2.00	2.33	2.05
May 3	2.17	S	2.09	2.03	2.02	2.03	2.02	2.03	2.01	2.03	2.03	2.02	2.01	2.01	C	C	C	C	1.97	1.98	1.96	1.97	1.97	1.97	1.96	2.17	2.02
May 4	S	1.98	1.98	1.99	2.00	1.99	1.99	1.99	1.98	1.99	1.99	1.98	1.99	1.99	1.98	1.98	1.97	1.97	1.97	1.98	1.98	1.99	1.99	S	1.97	2.00	1.98
May 5	2.00	2.00	2.00	2.02	2.03	2.04	2.04	2.04	2.03	2.01	1.99	1.99	2.00	2.00	2.00	2.01	2.01	2.00	1.99	2.00	2.01	2.02	S	2.02	1.99	2.04	2.01
May 6	2.02	2.02	2.02	2.04	2.03	2.06	2.06	2.10	2.06	2.03	2.00	2.01	2.04	2.05	2.03	2.01	2.01	2.01	2.01	2.03	2.01	S	2.00	2.01	2.00	2.10	2.03
May 7	2.01	2.03	2.03	2.03	2.06	2.16	2.18	2.18	2.25	2.22	2.13	2.05	2.01	2.02	2.03	2.03	2.03	2.04	2.04	2.03	S	2.04	2.03	2.04	2.01	2.25	2.07
May 8	2.06	2.15	2.35	2.33	2.15	2.11	2.07	2.06	2.06	2.05	2.04	2.03	2.08	2.05	2.01	2.00	2.00	2.01	2.00	S	2.03	2.05	2.05	2.03	2.00	2.35	2.08
May 9	2.04	2.04	2.05	2.09	2.10	2.04	2.05	2.08	2.07	2.05	2.05	2.03	2.03	2.02	2.02	2.02	2.02	2.02	S	2.10	2.06	2.08	2.06	2.06	2.02	2.10	2.05
May 10	2.08	2.10	2.10	2.10	2.11	2.11	2.14	2.09	2.07	2.04	2.03	2.01	2.01	2.00	2.01	2.01	2.01	S	2.02	2.02	2.06	2.06	2.04	2.05	2.00	2.14	2.06
May 11	2.10	2.11	2.15	2.09	2.09	2.24	2.08	2.05	2.04	2.04	2.04	2.04	2.01	2.01	2.01	2.01	S	2.01	2.01	2.01	2.02	2.04	2.02	2.08	2.01	2.24	2.06
May 12	2.05	2.06	2.05	2.08	2.09	2.07	2.05	2.04	2.04	2.03	2.01	2.01	2.01	2.01	2.01	S	2.01	2.01	2.03	2.06	2.07	2.14	2.11	2.10	2.01	2.14	2.05
May 13	2.09	2.14	2.14	2.17	2.15	2.17	2.15	2.07	2.04	2.03	2.03	2.02	2.01	2.01	S	2.00	2.00	2.00	2.02	2.06	2.03	2.07	2.05	2.08	2.00	2.17	2.07
May 14	2.14	2.13	2.13	2.12	2.14	2.16	2.13	2.13	2.06	1.99	1.99	1.99	1.99	S	2.00	2.00	2.01	2.03	2.04	2.04	2.13	2.19	2.16	2.17	1.99	2.19	2.08
May 15	K	K	K	2.33	2.25	2.30	2.24	2.14	2.08	2.09	2.07	2.05	S	2.03	2.05	2.05	2.08	2.14	2.18	2.14	2.08	2.04	2.05	2.04	2.03	2.33	2.12
May 16	2.00	2.00	2.01	1.99	2.00	2.00	2.05	2.04	2.02	2.01	2.01	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.03	2.14	1.99	2.14	2.01
May 17	2.04	2.05	2.05	2.06	2.08	2.08	2.07	2.02	2.03	2.03	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.10	2.12	2.20	2.00	2.20	2.04
May 18	2.18	2.21	2.25	2.27	2.46	2.54	2.61	2.49	2.19	S	2.08	2.06	2.04	2.03	2.04	2.03	2.08	2.15	2.14	2.11	2.06	2.11	2.13	2.63	2.03	2.63	2.21
May 19	2.23	2.09	2.17	2.13	2.14	2.16	2.08	2.08	S	2.10	2.09	2.06	2.04	2.06	2.08	2.08	2.08	2.12	2.16	2.15	2.09	2.09	2.10	2.12	2.04	2.23	2.11
May 20	2.11	2.10	2.09	2.11	2.10	2.08	2.10	S	2.22	2.29	2.32	2.38	2.47	2.55	2.53	2.65	**2.84**	2.53	2.39	2.52	2.56	2.52	2.43	2.30	2.08	**2.84**	**2.36**
May 21	2.26	2.29	2.31	2.76	2.28	2.26	S	2.24	2.23	2.24	2.22	2.18	2.15	2.12	2.07	2.04	2.08	2.07	2.09	2.12	2.13	2.02	2.01	2.03	2.01	2.76	2.18
May 22	2.02	2.01	2.00	2.02	2.02	S	2.04	2.04	2.07	2.10	2.10	2.09	2.09	2.06	2.04	2.02	2.02	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.99	2.10	2.03
May 23	1.99	1.99	1.99	1.99	S	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.03	2.03	2.03	2.04	2.04	2.05	2.04	2.04	2.04	1.99	2.05	2.02
May 24	2.04	2.04	2.04	S	2.03	2.03	2.04	2.05	2.07	2.03	2.05	2.02	2.02	2.01	2.00	1.99	1.99	1.99	2.00	2.00	2.02	2.01	2.03	2.04	1.99	2.07	2.02
May 25	2.22	2.28	S	2.06	2.05	2.08	2.06	2.07	2.02	2.02	2.01	2.00	2.00	1.99	1.98	1.97	1.98	1.99	1.98	1.98	1.99	2.04	2.10	2.02	1.97	2.28	2.04
May 26	2.02	S	2.08	2.07	2.08	2.09	2.08	2.07	2.04	2.03	2.02	2.01	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.98	1.98	2.01	2.05	2.04	1.97	2.09	2.02
May 27	S	2.16	2.05	2.11	2.13	2.08	2.02	2.04	1.98	1.97	1.96	1.98	1.97	1.97	1.97	1.96	1.96	1.97	1.96	1.98	1.96	1.98	2.04	S	1.96	2.16	2.01
May 28	2.00	1.98	1.98	1.99	1.99	1.99	2.00	2.01	1.98	1.98	1.98	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.96	S	1.97	1.95	2.01	1.97
May 29	1.98	2.01	1.99	1.98	2.06	2.02	NRM	1.96	1.96	1.96	1.96	1.96	1.97	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	1.98	1.99	1.96	2.06	1.98
May 30	2.00	2.04	2.02	2.00	2.02	2.03	2.05	2.08	2.08	2.02	2.00	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.97	1.99	S	2.01	2.03	2.00	1.97	2.08	2.01
May 31	2.02	2.04	2.00	2.00	1.99	2.00	1.99	1.98	1.99	1.99	2.00	2.00	1.98	1.98	1.97	1.97	1.97	1.97	S	1.97	1.97	1.97	2.03	1.99	1.97	2.04	1.99
Diurnal Maximum	2.26	2.29	2.35	2.76	2.46	2.54	2.61	2.49	2.25	2.29	2.32	2.38	2.47	2.55	2.53	2.65	2.84	2.53	2.39	2.52	2.56	2.52	2.43	2.63			
Diurnal Average	2.07	2.08	2.08	2.10	2.09	2.11	2.09	2.08	2.06	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.04	2.04	2.06	2.07	2.08			

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.



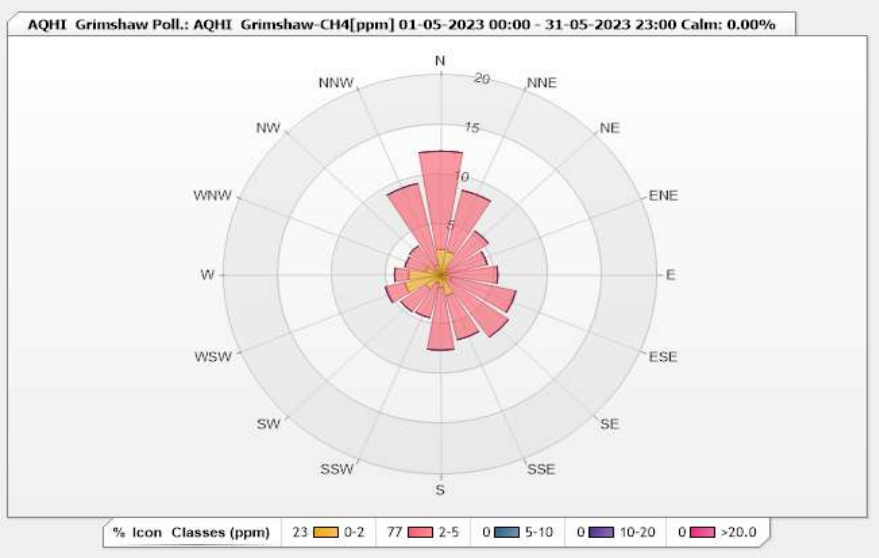


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.56	9.82	0	0	0	12.38
NNE	2.42	6.26	0	0	0	8.68
NE	0.85	4.55	0	0	0	5.4
ENE	0.57	3.84	0	0	0	4.41
E	0.14	5.12	0	0	0	5.26
ESE	1	6.12	0	0	0	7.12
SE	0.57	7.11	0	0	0	7.68
SSE	2.13	4.55	0	0	0	6.68
S	1.28	6.26	0	0	0	7.54
SSW	0.85	3.56	0	0	0	4.41
SW	1.71	2.84	0	0	0	4.55
WSW	3.41	1.85	0	0	0	5.26
W	2.99	1.28	0	0	0	4.27
WNW	1.42	1.99	0	0	0	3.41
NW	0.57	2.99	0	0	0	3.56
NNW	1	8.39	0	0	0	9.39
Summary	23.47	76.53	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

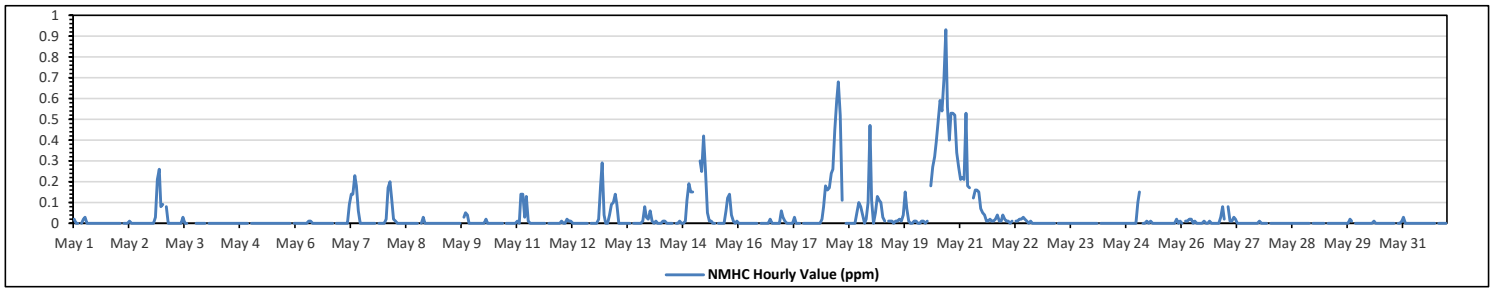
NON-METHANE HYDROCARBONS (NMHC) in ppm

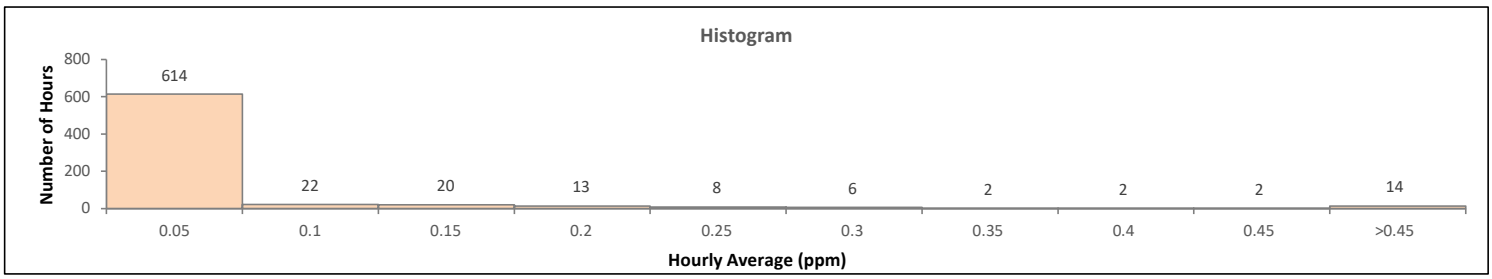
Maximum Hourly Value:	0.93	ppm	on May 20 at hr 16	Hours in Service:	744
Maximum Daily Value:	0.33	ppm	on May 20	Hours of Data:	703
Minimum Hourly Value:	0.00	ppm	on May 1 at hr 1	Hours of Missing Data:	4
Minimum Daily Value:	0.00	ppm	on May 4	Hours of Calibration:	37
Monthly Average:	0.03	ppm		Operational Uptime:	99.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.02	0.00	0.00	S	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
May 2	0.00	0.00	S	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	0.03	0.21	0.26	0.08	0.00	0.26	0.03
May 3	0.09	S	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.01
May 4	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
May 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.01	0.00
May 7	0.00	0.00	0.00	0.00	0.00	0.09	0.14	0.14	0.23	0.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.23	0.04
May 8	0.00	0.02	0.17	0.20	0.12	0.02	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	S	0.00	0.03	0.00	0.00	0.00	0.20	0.02
May 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.03	0.05	0.04	0.00	0.00	0.00	0.05	0.01
May 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
May 11	0.01	0.00	0.14	0.14	0.03	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.02
May 12	0.01	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.02	0.18	0.29	0.04	0.00	0.29	0.03
May 13	0.00	0.00	0.04	0.09	0.10	0.14	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.03	0.02	0.00	0.14	0.03
May 14	0.06	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	S	0.00	0.00	0.01	0.00	0.00	0.01	0.11	0.19	0.15	0.15	0.00	0.19	0.03
May 15	K	K	K	0.30	0.25	0.42	0.25	0.05	0.01	0.01	0.00	0.00	S	0.00	0.00	0.00	0.00	0.06	0.12	0.14	0.04	0.01	0.00	0.01	0.00	0.42	0.08
May 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.06	0.00
May 17	0.03	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.18	0.00	0.18	0.02
May 18	0.16	0.17	0.24	0.26	0.45	0.59	0.68	0.52	0.11	S	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.08	0.04	0.00	0.02	0.10	0.47	0.00	0.68	0.18
May 19	0.11	0.00	0.05	0.13	0.11	0.10	0.03	0.01	S	0.01	0.01	0.01	0.00	0.01	0.01	0.02	0.01	0.04	0.15	0.07	0.01	0.00	0.00	0.01	0.00	0.15	0.04
May 20	0.01	0.00	0.00	0.01	0.01	0.00	0.01	S	0.18	0.27	0.32	0.39	0.49	0.59	0.54	0.69	**0.93**	0.56	0.40	0.53	0.53	0.52	0.34	0.27	0.00	**0.93**	**0.33**
May 21	0.21	0.22	0.21	0.53	0.18	0.17	S	0.12	0.16	0.16	0.15	0.07	0.05	0.04	0.01	0.01	0.02	0.01	0.01	0.02	0.04	0.01	0.01	0.04	0.01	0.53	0.11
May 22	0.02	0.01	0.01	0.00	0.01	S	0.01	0.01	0.02	0.02	0.03	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01
May 23	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 24	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 25	0.10	0.15	S	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.15	0.01
May 26	0.00	S	0.01	0.01	0.02	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.02	0.00	0.08	0.01
May 27	S	0.08	0.01	0.01	0.03	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	0.01	0.00	0.00	0.00	0.00	S	0.00	0.08	0.01
May 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 29	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	S	0.00	0.00	0.00	0.02	0.00
May 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.01	0.00	0.01	0.00
May 31	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Diurnal Maximum	0.21	0.22	0.24	0.53	0.45	0.59	0.68	0.52	0.23	0.27	0.32	0.39	0.49	0.59	0.54	0.69	0.93	0.56	0.40	0.53	0.53	0.52	0.34	0.47			
Diurnal Average	0.03	0.02	0.03	0.06	0.04	0.06	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.03	0.03	0.03	0.03	0.05	0.05	0.05			

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

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



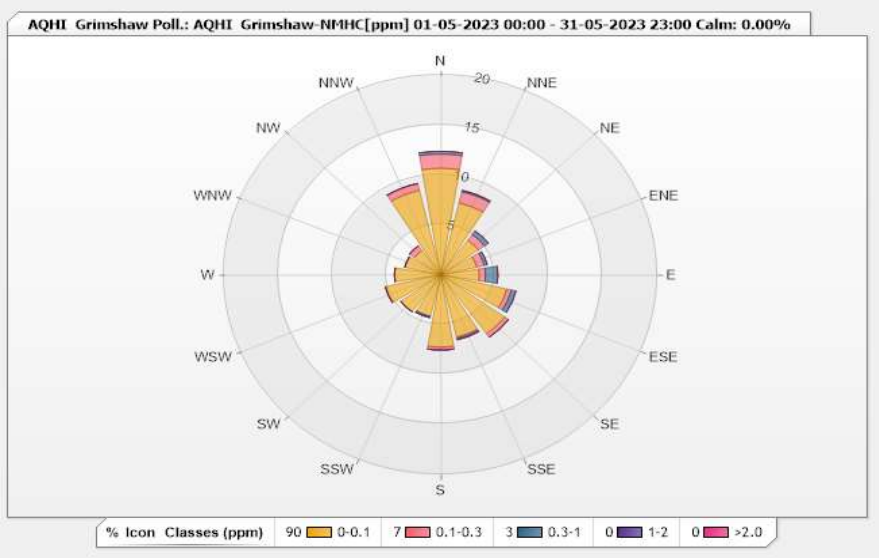


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	10.67	1.42	0.28	0	0	12.37
NNE	7.4	1.14	0.14	0	0	8.68
NE	4.27	0.71	0.43	0	0	5.41
ENE	3.41	0.71	0.28	0	0	4.4
E	3.56	0.57	1.14	0	0	5.27
ESE	6.26	0.43	0.43	0	0	7.12
SE	7.25	0.43	0	0	0	7.68
SSE	6.4	0.14	0.14	0	0	6.68
S	7.25	0.28	0	0	0	7.53
SSW	4.27	0	0.14	0	0	4.41
SW	4.55	0	0	0	0	4.55
WSW	5.26	0	0	0	0	5.26
W	4.27	0	0	0	0	4.27
WNW	3.41	0	0	0	0	3.41
NW	2.99	0.57	0	0	0	3.56
NNW	8.68	0.71	0	0	0	9.39
Summary	89.9	7.11	2.98	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 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

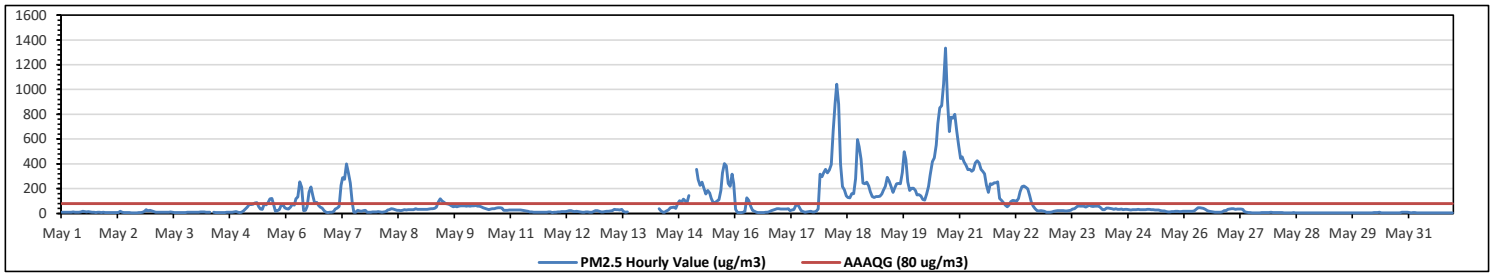
Number of 1-Hour Exceedances: 164 Number of 24-Hour Exceedances: 14

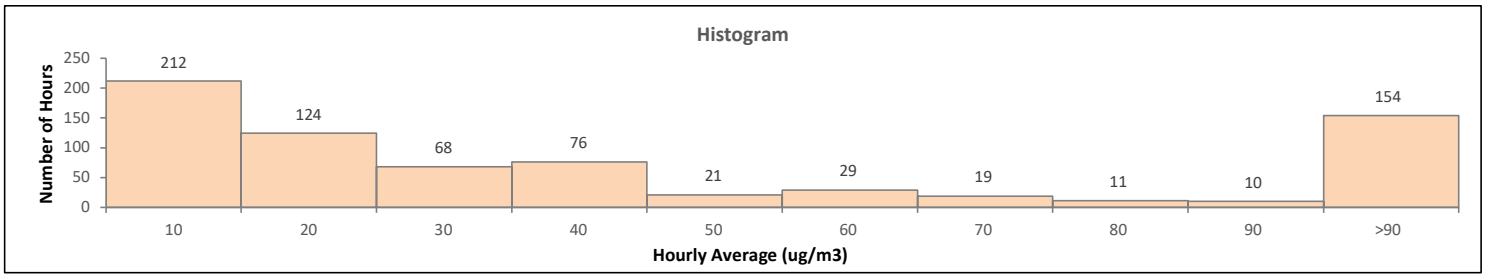
Maximum Hourly Value:	1335 µg/m^3 on May 20 at hr 16	Hours in Service:	744
Maximum Daily Value:	537.9 µg/m^3 on May 20	Hours of Data:	724
Minimum Hourly Value:	4 µg/m^3 on May 28 at hr 14	Hours of Missing Data:	19
Minimum Daily Value:	4 µg/m^3 on May 29	Hours of Calibration:	1
Monthly Average:	81.8 µg/m^3	Operational Uptime:	97.4

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			
May 1	11	10	8	8	9	10	12	10	8	11	13	16	14	13	14	13	9	8	7	8	9	7	8	6	6	16	10.1
May 2	6	6	6	6	6	6	7	16	8	7	6	7	6	5	5	5	5	6	6	9	16	31	19	25	5	31	9.4
May 3	19	14	11	10	9	10	10	11	9	11	12	9	6	7	6	6	7	7	7	8	9	10	11	11	6	19	9.6
May 4	9	11	13	13	12	10	9	10	C	8	7	6	6	7	7	7	9	9	11	10	12	14	11	7	6	14	9.5
May 5	9	19	35	51	73	73	75	83	88	54	34	33	76	68	86	118	122	75	18	21	31	65	68	47	9	122	59.3
May 6	36	34	49	74	66	117	132	254	212	23	25	56	172	213	143	79	90	63	51	42	22	8	6	8	6	254	82.3
May 7	8	12	35	42	56	228	289	275	399	328	245	87	11	9	26	20	17	24	26	10	9	10	12	12	8	399	91.3
May 8	13	14	12	11	13	15	27	31	36	34	29	26	26	24	26	29	28	30	31	29	31	37	33	32	11	37	25.7
May 9	33	33	33	33	35	38	38	40	51	94	117	98	90	79	77	70	61	54	57	54	57	61	62	62	33	117	59.5
May 10	60	61	58	62	61	63	60	57	53	45	41	35	31	34	36	39	42	44	44	42	25	26	26	27	25	63	44.7
May 11	27	27	28	27	27	27	26	24	19	16	12	12	10	10	9	11	11	10	10	11	12	12	7	10	7	28	16.5
May 12	10	12	13	14	15	15	17	21	23	18	14	16	14	12	11	11	13	13	9	10	14	22	24	18	9	24	15.0
May 13	13	12	15	17	17	20	24	32	30	29	28	32	15	11	12	N	N	N	N	N	N	N	N	N	11	32	NA
May 14	N	N	N	N	N	N	N	39	19	8	11	20	28	46	48	50	40	79	103	94	115	101	83	144	8	144	NA
May 15	K	K	K	356	273	227	252	203	157	183	163	119	85	85	99	111	183	328	402	383	243	219	316	243	85	402	220.5
May 16	33	6	6	6	8	14	125	105	58	25	18	9	7	6	6	7	10	9	14	24	28	32	39	39	6	125	26.4
May 17	34	35	34	35	39	24	28	30	64	74	45	21	15	11	12	15	16	13	13	18	35	317	296	328	11	328	64.7
May 18	356	328	349	393	669	890	1043	881	396	216	192	143	130	126	160	160	281	595	539	438	244	241	252	221	126	1043	385.1
May 19	175	136	128	136	136	139	156	188	218	291	259	215	171	203	239	242	238	329	497	434	256	186	202	203	128	497	224.0
May 20	184	150	151	142	113	106	158	217	308	418	447	552	724	851	869	1045	**1335**	919	661	778	769	798	665	549	106	**1335**	**537.9**
May 21	443	458	415	390	351	355	341	350	407	425	407	356	338	319	228	169	241	234	248	246	255	119	104	88	88	458	303.6
May 22	65	53	66	95	104	102	97	119	174	216	222	210	198	144	94	58	37	23	20	23	20	16	11	9	9	222	90.7
May 23	11	13	17	20	21	24	24	24	20	20	22	25	34	36	51	61	58	59	58	52	57	65	58	56	11	65	36.9
May 24	58	57	57	47	30	31	43	43	40	37	33	37	32	33	34	31	32	32	31	28	30	29	30	33	28	58	37.0
May 25	31	30	31	31	32	32	31	30	28	28	28	23	20	20	15	13	12	14	14	16	16	15	14	16	12	32	22.5
May 26	16	17	16	17	18	19	33	46	44	43	41	32	23	16	14	12	10	8	9	9	12	23	23	32	8	46	22.2
May 27	34	36	36	33	34	35	34	33	13	9	7	6	5	5	5	5	5	6	6	6	6	7	8	7	5	36	15.9
May 28	7	7	6	6	6	5	5	5	5	5	6	5	5	5	4	4	4	4	4	4	4	4	4	5	**4**	7	5.0
May 29	5	5	5	4	5	5	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	**4**	5	**4.3**
May 30	5	4	4	4	4	6	6	7	8	5	4	4	4	4	4	5	4	5	5	5	10	9	8	10	**4**	10	5.6
May 31	6	5	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5.1
Diurnal Maximum	443	458	415	393	669	890	1043	881	407	425	447	552	724	851	869	1045	1335	919	661	778	769	798	665	549			
Diurnal Average	59.2	55.3	56.7	69.6	74.9	88.4	103.7	103.0	96.8	86.8	80.5	71.6	74.4	77.8	75.8	80.2	97.6	100.3	97.0	94.0	78.5	83.1	80.3	75.2			

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.



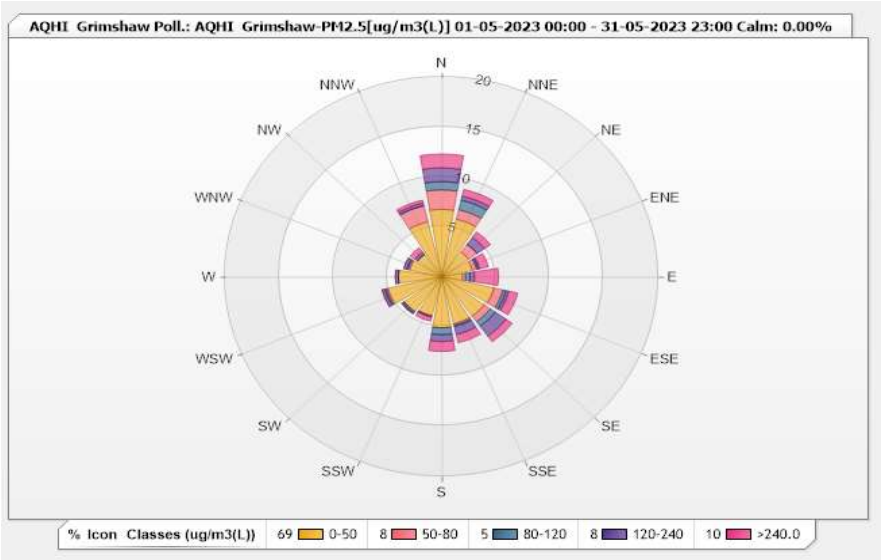


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 05-2023

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

Calm: 0.00% Valid Data: 97.31% Calm Avg: 0.00 [ppm]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	6.77	1.93	0.83	1.38	1.38	12.29
NNE	5.94	0.97	0.97	0.41	0.69	8.98
NE	3.04	0.97	0	0.83	0.69	5.53
ENE	2.9	0.41	0.14	0.14	0.83	4.42
E	1.93	0.28	0.41	0.41	2.21	5.24
ESE	4.97	0.83	0.28	0.28	0.83	7.19
SE	4.83	0.69	0.55	1.24	0.69	8
SSE	4.83	0.14	0.14	0.83	0.83	6.77
S	5.11	0	0.69	0.69	0.97	7.46
SSW	4.01	0	0.14	0	0.41	4.56
SW	4.28	0	0.14	0.14	0	4.56
WSW	5.11	0.14	0.14	0.28	0	5.67
W	4.01	0	0	0.28	0	4.29
WNW	3.04	0.14	0.14	0.28	0	3.6
NW	2.76	0	0	0.28	0.55	3.59
NNW	5.66	1.66	0	0.28	0.28	7.88
Summary	69.19	8.16	4.57	7.75	10.36	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

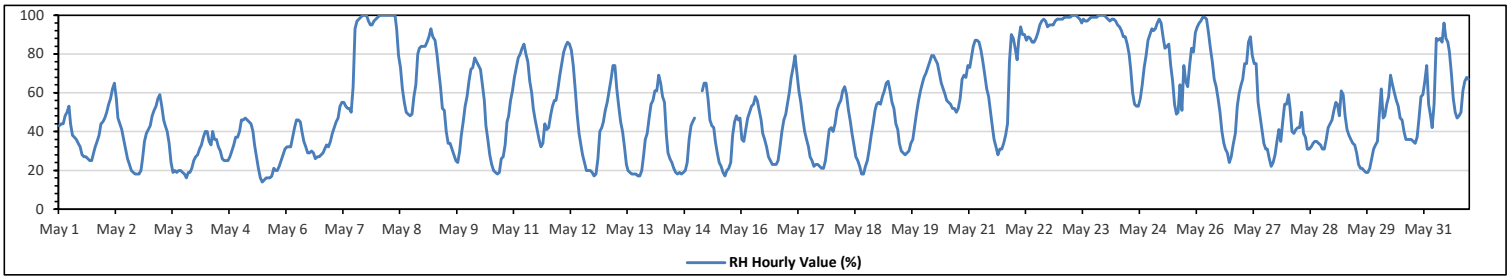
Maximum Hourly Value:	100	%	on May 7 at hr 16	Hours in Service:	744	
Maximum Daily Value:	98.8	%	on May 23	Hours of Data:	741	
Minimum Hourly Value:	14	%	on May 5 at hr 11	Hours of Missing Data:	3	
Minimum Daily Value:	28.0	%	on May 5	Hours of Calibration:	0	
Monthly Average:	52.6	%		Operational Uptime:	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			
May 1	43	44	44	48	50	53	44	38	37	36	34	32	28	27	27	26	25	25	29	32	35	38	44	45	25	53	36.8
May 2	47	50	54	57	62	65	57	47	44	41	36	31	26	23	20	19	18	18	18	20	26	35	39	41	18	65	37.3
May 3	43	48	51	53	57	59	53	46	43	40	34	24	19	20	19	20	20	19	18	16	19	19	21	25	16	59	32.8
May 4	27	28	31	33	37	40	40	35	33	40	36	36	32	30	26	25	25	25	27	30	33	37	37	40	25	40	32.6
May 5	46	46	47	46	45	44	40	33	27	21	16	**14**	15	16	16	16	17	21	20	20	22	25	28	31	**14**	47	**28.0**
May 6	32	32	32	37	42	46	46	45	40	35	32	29	29	30	29	26	27	27	28	29	31	33	32	35	26	46	33.5
May 7	39	42	45	47	53	55	55	53	52	52	50	63	93	97	98	99	**100**	**100**	**100**	97	95	95	97	98	39	**100**	74.0
May 8	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	93	79	73	62	55	50	49	48	49	58	64	80	83	84	48	**100**	80.3
May 9	84	84	86	89	93	89	87	80	72	63	52	51	40	34	34	31	28	25	24	30	38	45	53	58	24	93	57.1
May 10	66	72	73	78	76	74	72	64	56	43	36	28	23	20	19	18	19	26	27	33	45	48	56	61	18	78	47.2
May 11	68	73	78	80	83	85	80	76	66	60	52	46	41	36	32	34	44	41	42	48	53	56	56	62	32	85	58.0
May 12	69	75	81	84	86	85	82	74	62	49	39	34	28	24	20	20	20	19	17	18	26	40	42	45	17	86	47.5
May 13	51	55	61	67	74	74	62	53	45	40	32	23	20	19	18	18	18	17	17	20	28	36	39	47	17	74	38.9
May 14	54	56	61	61	69	65	58	55	38	29	26	24	21	19	18	19	18	19	20	24	36	43	45	47	18	69	38.5
May 15	**K**	**K**	**K**	61	65	65	57	46	43	42	35	29	24	22	19	17	20	21	24	38	45	48	46	47	17	65	38.8
May 16	36	35	41	47	50	53	54	58	56	51	46	39	36	32	27	25	23	23	23	25	32	40	46	49	23	58	39.5
May 17	54	60	68	73	79	70	61	55	47	40	36	32	27	25	22	23	23	22	21	21	25	33	41	42	21	79	41.7
May 18	40	44	51	54	56	61	63	59	51	45	39	33	27	25	22	18	18	22	25	31	38	44	51	54	18	63	40.5
May 19	55	54	58	61	65	66	61	55	52	44	41	34	30	29	28	29	30	34	36	43	50	56	61	65	28	66	47.4
May 20	68	70	73	76	79	79	77	75	70	65	62	59	56	55	54	52	52	50	52	57	67	69	68	74	50	79	65.0
May 21	73	78	84	87	87	86	82	76	69	62	58	50	42	36	32	28	31	31	34	38	44	76	90	88	28	90	60.9
May 22	83	77	87	94	90	90	87	89	88	86	86	88	91	95	97	98	97	94	95	95	95	97	98	98	77	98	91.5
May 23	98	98	99	99	99	99	**100**	**100**	**100**	99	98	96	98	97	97	98	99	99	99	99	**100**	**100**	**100**	**100**	96	**100**	**98.8**
May 24	99	98	97	98	98	97	95	94	92	89	89	85	80	72	60	54	53	53	57	64	73	79	87	90	53	99	81.4
May 25	93	92	93	96	98	96	89	83	84	85	74	66	54	49	50	64	51	74	66	63	74	83	81	91	49	98	77.0
May 26	94	96	97	99	99	98	91	83	76	67	63	57	50	40	34	31	29	24	27	33	39	53	60	64	24	99	62.7
May 27	67	75	75	86	89	79	75	75	55	48	41	34	31	31	26	22	24	28	35	41	35	45	54	54	22	89	51.0
May 28	59	52	40	39	41	42	42	50	39	37	31	31	32	34	35	35	34	33	31	31	36	42	44	46	31	59	39.0
May 29	51	55	54	48	61	59	48	41	38	36	34	33	29	23	21	21	20	19	19	21	26	31	33	35	19	61	35.7
May 30	49	62	47	48	54	58	69	64	60	56	53	47	46	40	36	36	36	36	35	34	37	47	58	59	34	69	48.6
May 31	66	74	54	48	42	54	88	87	88	86	96	88	86	81	70	57	50	47	48	50	61	66	68	67	42	96	67.6
Diurnal Maximum	99	100	100	100	100	100	100	100	100	100	98	96	98	97	98	99	100	100	100	99	100	100	100	100			
Diurnal Average	61.8	64.2	65.4	67.5	70.3	70.5	68.2	64.2	58.8	54.4	50.0	45.6	42.8	40.1	37.5	36.4	36.1	36.8	37.5	40.6	46.1	52.9	56.7	59.4			

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

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

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



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

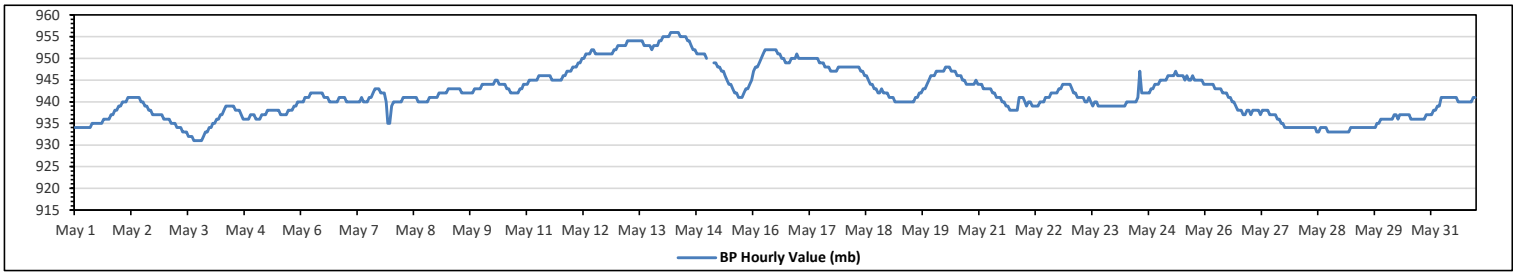
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	956	mb	on May 14 at hr 4	Hours in Service:	744	
Maximum Daily Value:	954	mb	on May 14	Hours of Data:	741	
Minimum Hourly Value:	931	mb	on May 3 at hr 15	Hours of Missing Data:	3	
Minimum Daily Value:	933	mb	on May 3	Hours of Calibration:	0	
Monthly Average:	942	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
May 1	934	934	934	934	934	934	934	934	934	935	935	935	935	935	935	936	936	936	936	937	937	938	938	939	934	939	935
May 2	939	940	940	940	941	941	941	941	941	941	941	940	940	939	939	938	938	937	937	937	937	937	937	936	936	941	939
May 3	936	936	936	935	935	935	934	934	934	933	933	933	932	932	932	**931**	**931**	**931**	**931**	**931**	932	933	933	934	**931**	936	**933**
May 4	934	935	935	936	936	937	937	938	939	939	939	939	939	938	938	938	937	936	936	936	936	937	937	937	934	939	937
May 5	936	936	936	937	937	937	938	938	938	938	938	938	938	937	937	937	937	938	938	938	939	939	940	940	936	940	938
May 6	940	940	941	941	941	942	942	942	942	942	942	942	941	941	941	940	940	940	940	940	941	941	941	941	940	942	941
May 7	940	940	940	940	940	940	940	940	941	940	940	940	941	941	942	943	943	943	942	942	942	940	935	935	935	943	940
May 8	939	940	940	940	940	940	941	941	941	941	941	941	941	941	940	940	940	940	940	940	941	941	941	941	939	941	940
May 9	941	942	942	942	942	942	943	943	943	943	943	943	943	942	942	942	942	942	942	942	943	943	943	943	941	943	942
May 10	944	944	944	944	944	944	944	945	945	944	944	944	944	943	943	942	942	942	942	942	943	943	944	944	942	945	944
May 11	944	945	945	945	945	945	946	946	946	946	946	946	946	945	945	945	945	945	945	946	946	947	947	947	944	947	946
May 12	948	948	948	949	949	950	950	951	951	951	952	952	951	951	951	951	951	951	951	951	951	951	952	952	948	952	951
May 13	953	953	953	953	953	954	954	954	954	954	954	954	954	954	953	953	953	953	952	953	953	953	954	954	952	954	953
May 14	955	955	955	955	**956**	**956**	**956**	**956**	**956**	955	955	955	955	954	954	953	952	952	951	951	951	951	951	950	950	**956**	**954**
May 15	K	K	K	949	949	948	948	947	947	946	945	944	944	943	942	942	941	941	941	942	943	943	944	945	941	949	944
May 16	947	948	948	949	950	951	952	952	952	952	952	952	952	951	951	950	950	949	949	949	950	950	950	951	947	952	950
May 17	950	950	950	950	950	950	950	950	950	950	950	949	949	949	948	948	948	947	947	947	947	948	948	948	947	950	949
May 18	948	948	948	948	948	948	948	948	948	947	947	946	946	945	944	944	943	943	942	942	943	942	942	942	942	948	945
May 19	941	941	941	940	940	940	940	940	940	940	940	940	940	940	941	941	942	942	943	943	944	945	946	946	940	946	942
May 20	946	947	947	947	947	947	948	948	948	947	947	947	946	946	946	945	945	944	944	944	944	944	945	944	944	948	946
May 21	944	944	943	943	943	943	943	942	942	941	941	941	940	940	939	939	938	938	938	938	938	941	941	941	938	944	941
May 22	940	939	940	940	939	939	939	939	940	940	940	941	941	941	942	942	942	942	943	943	944	944	944	944	939	944	941
May 23	944	943	942	942	941	941	941	941	940	940	941	940	939	940	940	939	939	939	939	939	939	939	939	939	939	944	940
May 24	939	939	939	939	939	939	940	940	940	940	940	940	941	947	942	942	942	942	942	943	943	944	944	944	939	947	941
May 25	945	945	945	945	946	946	946	946	947	946	946	946	946	945	946	945	945	946	945	945	945	945	945	944	944	947	945
May 26	944	944	944	944	944	943	943	943	943	942	942	942	941	941	940	940	939	938	938	938	937	937	938	938	937	944	941
May 27	937	938	938	938	938	937	938	938	938	938	937	937	937	937	936	936	935	935	934	934	934	934	934	934	934	938	936
May 28	934	934	934	934	934	934	934	934	934	934	934	933	933	934	934	934	934	933	933	933	933	933	933	933	933	934	934
May 29	933	933	933	933	933	934	934	934	934	934	934	934	934	934	934	934	934	934	934	935	935	936	936	936	933	936	934
May 30	936	936	936	936	937	937	936	937	937	937	937	937	937	936	936	936	936	936	936	936	936	937	937	937	936	937	936
May 31	937	938	938	939	939	941	941	941	941	941	941	941	941	941	940	940	940	940	940	940	940	940	941	941	937	941	940
Diurnal Maximum	955	955	955	955	956	956	956	956	956	955	955	955	955	954	954	953	953	953	952	953	953	953	954	954			
Diurnal Average	942	942	942	942	942	942	943	943	943	942	942	942	942	942	942	941	941	941	941	941	942	942	942	942			

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 - May 2023

Summary of Hourly Averages

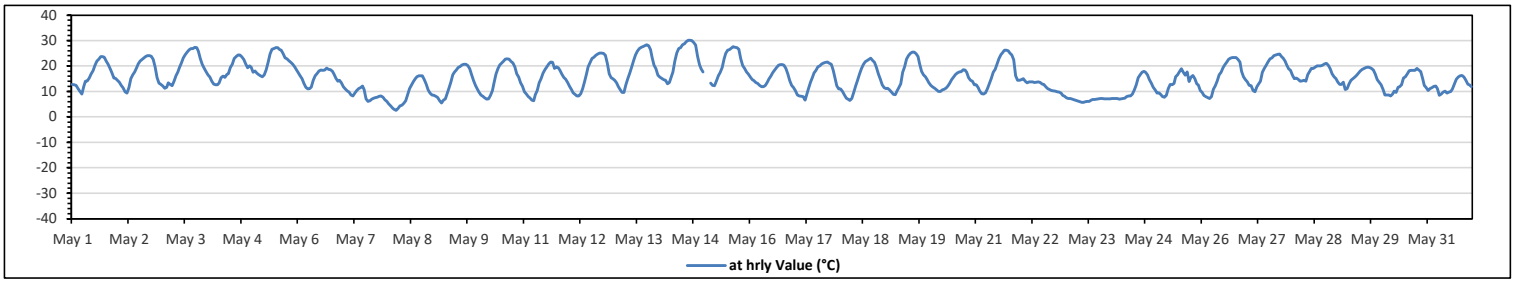
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	30.1	°C	on May 14 at hr 15	Hours in Service:	744	
Maximum Daily Value:	22.4	°C	on May 14	Hours of Data:	741	
Minimum Hourly Value:	2.6	°C	on May 8 at hr 4	Hours of Missing Data:	3	
Minimum Daily Value:	6.7	°C	on May 23	Hours of Calibration:	0	
Monthly Average:	15.6	°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
May 1	12.8	12.6	12.4	11.1	10	9.1	12	14.1	14.2	15.3	16.9	18.2	20.3	22	22.7	23.7	23.7	23.5	22	20.7	19	17.3	15.3	15.2	9.1	23.7	16.8
May 2	14.5	13.6	12.4	11.4	9.9	9.3	11.5	15.1	16.6	17.7	19.3	20.8	21.9	22.6	23.2	23.7	24	24	23.9	22.6	19.6	15.4	13.3	12.8	9.3	24.0	17.5
May 3	12.1	11.3	11.7	13.4	12.8	12.3	14.1	16.2	17.7	19.4	21.2	23.2	24.5	25.4	26.4	26.9	26.9	27.4	27.2	25.8	22.9	20.7	19.2	17.8	11.3	27.4	19.9
May 4	16.6	15.7	14	13	12.7	12.6	13.4	15.5	16	15.6	16.7	17.1	19.4	20.7	23	23.8	24.3	24.3	23.6	22.6	20.9	19.3	20	19.6	12.6	24.3	18.4
May 5	17.6	18.1	17.2	16.7	16.2	15.9	16.6	18.6	21.4	24.8	26.6	26.8	27.2	27.2	26.5	26.2	24.9	23.2	22.8	22.1	21.4	20.7	19.7	18.5	15.9	27.2	21.5
May 6	17.4	16.1	15	13.2	11.7	11	11.1	11.8	14.5	16.2	17.1	18.1	18.5	18.4	18.5	19.2	18.7	18.6	17.9	16.8	15.2	14.1	14.4	13.4	11.0	19.2	15.7
May 7	11.9	11	10.3	9.8	8.6	8.3	9.3	10.4	11.1	11.6	12.1	10.8	7.1	6.2	6.4	7	7.4	7.7	7.8	8.1	8.2	7.8	6.7	6.1	6.1	12.1	8.8
May 8	5.2	4.4	3.5	2.9	**2.6**	3.3	4.3	4.6	5.3	6.4	8.8	11.2	12.5	13.9	15	15.8	16.1	16.2	16.1	14.6	13	10.6	9.4	8.7	**2.6**	16.2	9.4
May 9	8.5	8.1	7.6	6.4	5.4	6.6	7.1	9	11.3	13.7	16.5	17.5	18.5	19.4	19.9	20.5	20.7	20.7	20.2	18.9	16.5	14.3	12.4	11.1	5.4	20.7	13.8
May 10	9.7	8.6	8.1	7.5	7	7.1	8.5	10.5	13.4	16.8	18.9	20.4	21.2	22	22.7	22.8	22.7	21.8	21.2	19.8	16.9	15.7	13.4	12	7.0	22.8	15.4
May 11	9.9	9	8	7.5	6.6	6.4	8.8	10.4	13.4	15.1	17.2	18.6	19.8	20.9	21.6	21.4	19.1	19.8	19.3	18.3	16.8	15.6	14.7	13.5	6.4	21.6	14.7
May 12	12	10.7	9.5	8.9	8.2	8.2	9.2	11.1	13.9	17	19.7	21.3	22.9	23.5	24.2	24.7	25.1	25.2	25	24.2	21.1	17	15.5	15	8.2	25.2	17.2
May 13	14.4	13.4	12	10.8	9.6	9.6	12.6	15	17.2	19.6	22.1	24.3	25.8	26.8	27.4	27.6	28	28.3	28	26.5	23.4	20.3	18.9	16.4	9.6	28.3	19.9
May 14	15.7	15.2	14.6	14.4	13.1	13.5	15.4	17.7	22	25.2	26.8	27.3	28.3	28.8	29.6	**30.1**	**30.1**	30	29.3	28.2	23.9	20.6	18.9	17.7	13.1	**30.1**	**22.4**
May 15	K	K	K	13.3	12.4	12.2	14.2	16.2	17.5	19.5	22.8	25	26.2	26.5	27	27.6	27.4	27.3	26.6	22.8	20.2	19	17.7	16.8	12.2	27.6	20.9
May 16	15.7	14.6	14.3	13.5	13.2	12.4	11.9	11.9	12.4	13.7	14.9	16	17.4	18.5	19.5	20.3	20.6	20.6	20.3	19.1	16.9	14.3	12.4	11.6	11.6	20.6	15.7
May 17	10.3	8.6	8.3	8.1	8	6.6	9.2	11.3	13.6	15.6	17.3	18.4	19.7	20.1	20.8	21.2	21.4	21.6	21.1	20.7	18.4	15	12.2	11	6.6	21.6	14.9
May 18	11	10	8.7	7.4	7	6.5	7.2	9.6	12.1	14.5	16.8	18.9	20.6	21.7	22.1	22.6	23.1	22.3	21.4	19.4	16.9	14.9	12.7	11.5	6.5	23.1	15.0
May 19	11.1	11.3	10.6	9.7	8.9	8.8	10.2	11.5	13.1	17.5	19.8	22.7	24.1	25	25.5	25.4	24.9	23.7	20.8	18	16.6	15.8	14.7	13.4	8.8	25.5	16.8
May 20	12.4	11.8	11.3	10.6	10	10	10.6	10.9	11.4	12.3	13.3	14.6	15.7	16.7	17.3	17.7	17.8	18.6	18.5	17.5	15.4	14.4	14	12.6	10.0	18.6	14.0
May 21	12.7	11.6	10.1	9.2	9.1	9.5	11.2	13.2	15.2	17.5	18.7	20.8	22.9	24.5	25.3	26.3	26.3	26	25.2	24.4	22.5	16.2	14.4	14.5	9.1	26.3	17.8
May 22	14.6	15.1	14.1	13.4	13.8	13.8	13.8	13.5	13.6	13.8	13.5	13	12.8	11.9	11.2	10.7	10.5	10.3	10.1	9.9	9.7	9.4	8.5	8.1	8.1	15.1	12.0
May 23	7.5	7.2	7.2	7	6.7	6.5	6.3	6	5.7	5.8	6	6.1	6.1	6.6	6.8	6.9	7	7.1	7.3	7.2	7.1	7.1	7.1	7.1	5.7	7.5	**6.7**
May 24	7.2	7.3	7.3	7.2	7	7.1	7.2	7.4	7.9	8.2	8.2	9.1	10.6	12.7	15.4	16.6	17.6	18	17.5	16.5	14.6	13.3	11.7	10.6	7.0	18.0	11.1
May 25	9.4	9.5	8.8	7.9	7.8	8.5	11.1	12.8	12.7	13.2	15.8	16.6	17.8	18.9	17.6	16.4	17.7	13.9	15.7	16.3	15.1	13.1	12.5	10.5	7.8	18.9	13.3
May 26	9.6	8.5	8	7.6	7.3	8	10.9	12.3	14.2	16.6	17.6	19.3	20.6	21.6	22.6	23.1	23.3	23.4	23.4	22.6	21.5	18	15.8	14.6	7.3	23.4	16.3
May 27	13.8	12.4	12.3	10.5	9.9	11.9	12.9	14.1	17.5	19	20.3	21.7	22.8	23.2	24	24.4	24.6	24.7	23.9	23.1	22	20.4	18.9	18.3	9.9	24.7	18.6
May 28	16.4	15.1	15.3	14.8	14.1	14.2	14.4	14.1	16.7	17.9	19.1	19.1	19.6	20	20	20.1	20.3	20.8	21.1	20.3	18.9	16.9	15.9	15	14.1	21.1	17.5
May 29	13.7	12.8	12.8	13.7	10.7	11.2	13.1	14.5	15.1	15.7	16.4	17.2	18.1	18.7	19.1	19.5	19.6	19.5	19.1	18.5	16.8	14.6	13.6	12.7	10.7	19.6	15.7
May 30	10.9	8.6	8.7	8.6	8.3	9.1	10.2	9.6	11.7	11.9	12.7	15.3	15.8	17	18.2	18.3	18.4	18.3	19	18.5	17.8	15	12.4	11.6	8.3	19.0	13.6
May 31	10.5	11.2	11.6	12	12.1	11.1	8.5	9.1	9.7	10.2	9.4	9.7	10	11	13	14.8	15.7	16.2	16.3	15.7	14.4	12.9	12.5	11.9	8.5	16.3	12.1
Diurnal Maximum	17.6	18.1	17.2	16.7	16.2	15.9	16.6	18.6	22.0	25.2	26.8	27.3	28.3	28.8	29.6	30.1	30.1	30.0	29.3	28.2	23.9	20.7	20.0	19.6			
Diurnal Average	12.2	11.4	10.9	10.4	9.7	9.7	10.9	12.2	13.8	15.4	16.9	18.0	19.0	19.8	20.4	20.8	20.9	20.7	20.4	19.3	17.5	15.5	14.2	13.2			

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 - May 2023

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

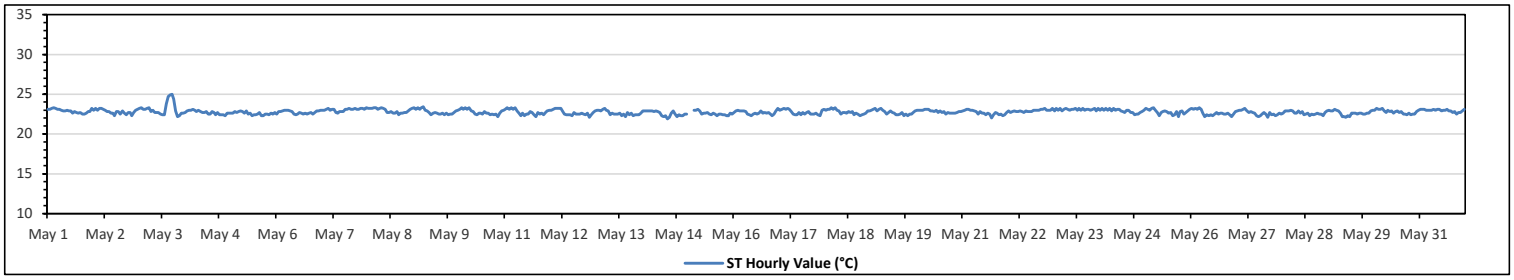
Maximum Hourly Value:	25.0	°C	on May 3 at hr 17	Hours in Service:	744	
Maximum Daily Value:	23.2	°C	on May 3	Hours of Data:	741	
Minimum Hourly Value:	21.9	°C	on May 14 at hr 13	Hours of Missing Data:	3	
Minimum Daily Value:	22.6	°C	on May 14	Hours of Calibration:	0	
Monthly Average:	22.8	°C		Operational 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
May 1	23.1	23.1	23.2	23.3	23.2	23.1	23.1	23.0	22.9	22.9	23.0	22.9	22.9	22.6	22.8	22.7	22.6	22.7	22.5	22.5	22.6	22.8	22.8	23.2	22.5	23.3	22.9
May 2	23.0	23.2	23.0	23.2	23.2	23.1	23.0	22.8	22.8	22.6	22.6	22.3	22.8	22.8	22.5	22.9	22.6	22.4	22.7	22.7	22.3	22.7	23.0	23.1	22.3	23.2	22.8
May 3	23.2	23.3	23.1	23.1	23.2	23.3	22.8	23.0	22.7	22.7	22.7	22.5	22.4	22.4	23.8	24.7	24.9	**25.0**	24.4	22.9	22.2	22.3	22.6	22.6	22.2	**25.0**	**23.2**
May 4	22.7	22.9	23.0	23.0	23.1	23.0	22.8	23.0	22.8	22.7	22.7	22.8	22.5	22.5	22.8	22.7	22.4	22.7	22.4	22.4	22.4	22.3	22.6	22.6	22.3	23.1	22.7
May 5	22.6	22.6	22.8	22.7	22.8	22.9	22.8	22.6	22.9	22.5	22.6	22.3	22.4	22.4	22.5	22.7	22.3	22.3	22.5	22.5	22.4	22.6	22.5	22.7	22.3	22.9	22.6
May 6	22.5	22.8	22.8	22.9	23.0	23.0	23.0	22.9	22.8	22.5	22.4	22.5	22.7	22.6	22.5	22.6	22.5	22.6	22.7	22.5	22.7	22.9	22.9	23.0	22.4	23.0	22.7
May 7	23.0	23.0	23.1	23.2	23.0	23.1	23.1	22.7	22.6	22.8	22.8	22.8	23.1	23.1	23.2	23.1	23.1	23.2	23.1	23.1	23.2	23.2	23.1	23.3	22.6	23.3	23.0
May 8	23.2	23.2	23.2	23.3	23.3	23.1	23.2	23.3	23.2	23.1	22.7	22.7	22.8	22.6	22.6	22.8	22.4	22.6	22.6	22.7	22.7	22.9	23.1	23.2	22.4	23.3	22.9
May 9	23.3	23.1	23.3	23.1	23.3	23.4	23.0	22.9	22.7	22.4	22.6	22.7	22.6	22.5	22.5	22.6	22.4	22.6	22.4	22.5	22.5	22.7	22.9	23.0	22.4	23.4	22.8
May 10	23.1	23.3	23.1	23.3	23.1	23.3	22.9	22.8	22.5	22.4	22.6	22.6	22.5	22.8	22.6	22.6	22.4	22.5	22.4	22.5	22.2	22.6	22.9	23.0	22.2	23.3	22.8
May 11	23.1	23.3	23.1	23.3	23.1	23.3	22.9	22.6	22.3	22.6	22.3	22.5	22.5	22.8	22.7	22.4	22.2	22.7	22.5	22.6	22.4	22.7	22.9	23.0	22.2	23.3	22.7
May 12	23.0	23.1	23.2	23.2	23.2	23.2	22.8	22.5	22.4	22.4	22.4	22.3	22.7	22.5	22.5	22.5	22.6	22.5	22.4	22.6	22.1	22.4	22.7	22.9	22.1	23.2	22.7
May 13	23.0	23.0	22.9	23.1	23.2	23.0	22.9	22.4	22.6	22.5	22.5	22.5	22.6	22.3	22.5	22.2	22.7	22.4	22.6	22.3	22.4	22.4	22.4	22.6	22.2	23.2	22.6
May 14	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.9	22.8	22.7	22.3	22.2	22.3	**21.9**	22.1	22.6	22.9	22.5	22.2	22.4	22.3	22.3	22.5	22.5	**21.9**	22.9	**22.6**
May 15	K	K	K	23.0	23.0	23.1	22.9	22.5	22.6	22.6	22.7	22.5	22.4	22.6	22.5	22.3	22.5	22.5	22.4	22.4	22.3	22.3	22.6	22.5	22.3	23.1	22.6
May 16	22.7	22.9	23.0	22.9	22.9	22.9	22.8	22.5	22.4	22.3	22.5	22.6	22.5	22.6	22.9	22.6	22.7	22.6	22.7	22.5	22.3	22.5	22.9	23.2	22.3	23.2	22.7
May 17	23.0	23.1	23.2	23.1	23.2	23.1	22.8	22.5	22.4	22.4	22.7	22.4	22.7	22.5	22.7	22.8	22.5	22.5	22.5	22.6	22.4	22.3	23.0	23.1	22.3	23.2	22.7
May 18	23.0	23.1	23.1	23.3	23.1	23.3	23.0	22.9	22.5	22.7	22.7	22.6	22.8	22.7	22.8	22.4	22.6	22.5	22.3	22.4	22.5	22.6	22.9	22.9	22.3	23.3	22.8
May 19	23.0	23.1	23.2	22.9	23.1	23.2	23.0	22.8	22.5	22.7	22.9	22.7	22.6	22.4	22.4	22.5	22.7	22.3	22.5	22.3	22.5	22.5	22.7	22.9	22.3	23.2	22.7
May 20	23.0	23.0	23.0	23.0	23.1	23.1	23.1	22.9	22.9	22.8	23.0	22.7	22.9	22.7	22.8	22.5	22.7	22.6	22.6	22.6	22.6	22.7	22.8	22.8	22.5	23.1	22.8
May 21	22.9	23.0	23.1	23.1	23.0	23.0	22.9	22.8	22.5	22.8	22.6	22.6	22.4	22.6	22.5	22.0	22.4	22.7	22.6	22.4	22.5	22.3	22.4	22.7	22.0	23.1	22.7
May 22	22.9	22.7	22.8	22.9	22.8	22.8	22.9	22.8	22.7	22.9	22.8	22.8	22.8	23.0	23.0	23.0	23.0	23.1	23.1	23.2	23.0	23.0	23.0	23.2	22.7	23.2	22.9
May 23	22.9	23.2	23.0	23.2	22.9	23.1	23.2	23.1	23.0	23.1	23.1	23.2	23.0	23.2	23.0	23.2	23.0	23.1	23.1	23.0	23.1	23.2	22.9	23.2	22.9	23.2	23.1
May 24	23.0	23.2	23.0	23.2	23.0	23.2	22.9	23.2	23.0	23.1	23.1	22.9	22.8	22.7	23.0	23.0	22.7	22.7	22.4	22.5	22.5	22.7	22.8	23.0	22.4	23.2	22.9
May 25	23.2	23.1	23.0	23.2	23.3	23.0	22.7	22.3	22.7	22.8	22.9	22.8	22.6	22.7	22.3	22.4	22.8	22.2	22.8	22.9	22.5	22.7	22.9	23.1	22.2	23.3	22.8
May 26	23.2	23.1	23.2	23.1	23.3	23.1	22.6	22.2	22.4	22.3	22.4	22.3	22.5	22.7	22.5	22.6	22.6	22.5	22.5	22.6	22.4	22.2	22.5	22.8	22.2	23.3	22.7
May 27	22.9	23.0	23.0	23.1	23.2	22.9	22.7	22.8	22.7	22.6	22.3	22.2	22.3	22.5	22.7	22.5	22.1	22.7	22.4	22.5	22.3	22.4	22.6	22.5	22.1	23.2	22.6
May 28	22.6	22.9	22.9	22.9	23.0	22.9	22.6	22.6	22.9	22.6	22.8	22.4	22.5	22.6	22.3	22.5	22.4	22.5	22.6	22.5	22.5	22.3	22.7	22.9	22.3	23.0	22.6
May 29	23.0	22.9	22.9	23.1	23.0	22.9	22.6	22.2	22.2	22.1	22.3	22.2	22.6	22.6	22.6	22.5	22.6	22.6	22.5	22.5	22.6	22.6	22.9	23.0	22.1	23.1	22.6
May 30	23.0	23.2	23.1	23.1	23.2	22.9	22.7	23.0	22.8	22.9	22.6	22.8	22.9	22.7	22.8	22.5	22.5	22.4	22.6	22.4	22.5	22.5	22.8	23.0	22.4	23.2	22.8
May 31	23.1	23.1	23.1	23.0	23.0	23.0	23.0	23.1	23.0	23.1	23.1	22.9	23.0	23.0	23.1	22.9	22.9	22.7	22.8	22.5	22.7	22.7	22.9	23.1	22.5	23.1	23.0
Diurnal Maximum	23.3	23.3	23.3	23.3	23.3	23.4	23.2	23.3	23.2	23.1	23.1	23.2	23.1	23.2	23.8	24.7	24.9	25.0	24.4	23.2	23.2	23.2	23.1	23.3			
Diurnal Average	23.0	23.0	23.0	23.1	23.1	23.1	22.9	22.8	22.7	22.7	22.7	22.6	22.6	22.6	22.7	22.7	22.7	22.7	22.6	22.6	22.5	22.6	22.8	22.9			

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

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

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



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

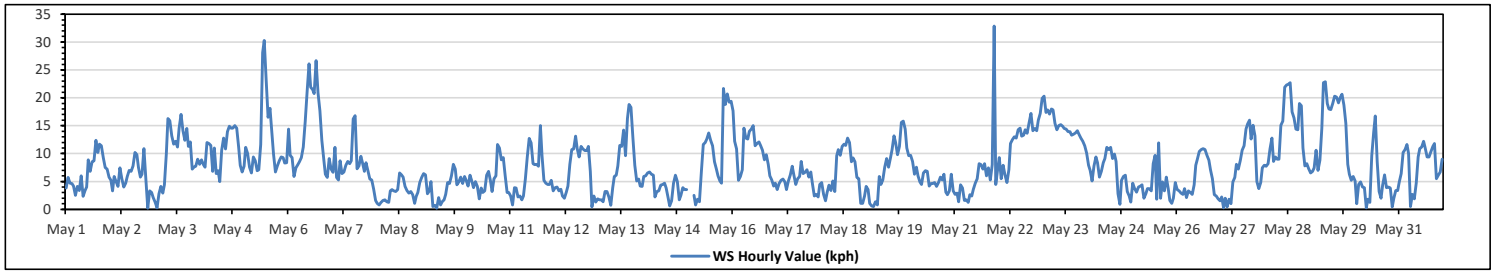
VECTOR WIND SPEED (VWS) in km/hr

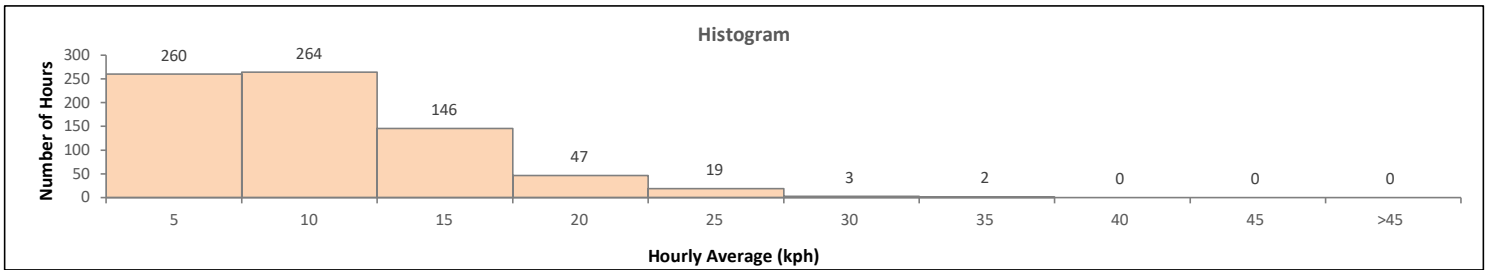
Maximum Hourly Value:	32.9	kph	on May 21 at hr 21	Hours in Service:	744
Maximum Daily Value:	14.8	kph	on May 23	Hours of Data:	741
Minimum Hourly Value:	0.2	kph	on May 2 at hr 20	Hours of Missing Data:	3
Minimum Daily Value:	3.0	kph	on May 8	Hours of Calibration:	0
Monthly Average:	7.9	kph		Operational 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			
May 1	3.8	5.7	4.7	4.6	4.2	2.5	4.1	3.4	6.0	2.3	3.4	4.0	8.9	6.8	8.5	8.7	12.4	10.2	11.7	11.4	9.3	7.5	7.2	5.8	2.3	12.4	6.5
May 2	5.2	3.3	5.9	5.0	4.1	7.4	5.5	4.0	4.7	5.9	7.0	6.8	7.8	10.2	9.8	7.5	5.8	6.3	10.9	5.5	**0.2**	3.3	3.0	2.1	**0.2**	10.9	5.7
May 3	1.3	0.3	2.8	4.1	2.9	4.4	9.9	16.3	15.9	13.2	11.7	12.2	11.2	14.6	17.0	14.1	12.4	14.5	11.3	12.1	7.2	7.6	7.7	9.0	0.3	17.0	9.7
May 4	8.1	8.9	8.0	7.6	12.0	11.8	11.5	6.8	11.0	6.4	6.9	5.0	10.6	12.8	10.8	13.9	14.9	14.6	14.6	15.0	14.6	11.2	7.9	6.7	5.0	15.0	10.5
May 5	7.7	11.1	10.0	7.6	6.5	9.4	8.7	6.9	7.1	11.6	28.1	30.3	23.2	16.5	18.1	13.6	9.9	6.7	7.8	8.7	9.4	9.3	8.3	8.4	6.5	30.3	11.9
May 6	14.4	9.7	9.3	5.9	7.4	8.0	8.5	9.3	11.2	15.7	21.1	26.1	21.9	21.5	20.8	26.7	20.9	17.7	12.4	9.0	6.3	5.7	9.1	7.2	5.7	26.7	13.6
May 7	6.6	11.1	5.7	5.3	8.7	6.4	6.7	7.9	8.6	8.2	8.7	16.2	16.8	7.3	7.8	9.5	8.4	6.8	8.4	6.9	5.4	5.3	3.6	1.6	1.6	16.8	7.8
May 8	1.1	0.8	1.2	1.6	1.7	1.4	1.2	3.3	3.5	3.3	3.2	3.5	6.5	6.2	5.8	4.1	3.4	2.9	3.2	2.6	1.1	2.3	3.0	4.8	0.8	6.5	**3.0**
May 9	5.7	6.4	6.2	2.8	3.3	5.0	0.5	0.7	**0.2**	2.1	0.8	1.4	1.7	2.7	4.8	4.6	6.0	8.1	7.2	4.4	4.9	5.8	4.6	5.9	**0.2**	8.1	4.0
May 10	5.2	4.2	6.1	5.2	3.9	5.0	4.1	1.9	3.8	3.0	3.3	6.1	6.8	5.1	3.2	5.5	6.0	11.6	11.0	8.9	9.3	6.0	3.0	3.0	1.9	11.6	5.5
May 11	2.4	0.8	3.9	3.8	2.2	2.4	1.7	2.4	5.4	9.4	12.7	11.9	8.2	8.0	8.1	7.7	15.0	9.7	5.2	4.7	4.5	4.5	5.2	3.3	0.8	15.0	6.0
May 12	3.9	4.0	3.3	3.6	2.4	2.0	3.1	4.2	8.1	10.7	10.8	13.1	10.9	9.4	11.3	10.8	10.5	10.5	11.3	6.8	0.4	2.4	1.3	1.9	0.4	13.1	6.5
May 13	1.7	1.7	1.4	3.2	3.2	2.2	0.7	3.9	5.9	6.1	7.8	11.5	11.3	14.2	9.6	16.3	18.8	18.3	12.9	7.9	5.1	5.4	4.2	4.1	0.7	18.8	7.4
May 14	5.9	6.0	6.5	6.7	6.3	6.1	2.2	3.2	3.3	4.3	4.5	4.7	3.8	2.1	0.6	1.5	4.7	6.1	5.0	1.7	2.5	3.9	3.5	3.5	0.6	6.7	4.1
May 15	**K**	**K**	**K**	2.5	0.8	1.8	1.4	6.7	11.6	12.0	12.6	13.7	12.4	11.4	8.5	7.2	6.0	5.1	4.7	21.7	18.8	20.7	19.2	19.4	0.8	21.7	10.4
May 16	17.7	12.2	10.8	5.2	5.9	7.1	14.6	12.8	12.6	14.0	14.4	15.0	11.4	11.8	12.1	11.5	10.6	8.9	9.8	8.1	6.0	5.3	4.2	4.7	4.2	17.7	10.3
May 17	3.5	4.6	5.2	5.4	4.9	3.5	5.1	6.2	7.7	6.2	4.5	5.5	5.9	8.6	6.4	6.6	7.1	5.8	6.7	4.6	2.4	2.7	2.2	4.5	2.2	8.6	5.2
May 18	4.8	2.7	1.5	3.0	4.3	3.4	5.1	3.2	9.6	10.7	9.7	11.3	11.7	11.5	12.8	12.0	8.5	9.2	8.5	5.7	5.5	1.1	1.1	2.4	1.1	12.8	6.6
May 19	4.1	3.5	1.1	0.6	0.5	1.4	0.8	5.9	4.5	5.3	7.6	9.1	7.6	9.2	10.7	13.2	12.0	9.8	11.3	15.6	15.8	14.4	11.0	9.6	0.5	15.8	7.7
May 20	9.7	8.6	6.3	7.6	6.0	4.9	4.5	6.5	6.9	6.8	4.2	4.6	4.6	4.8	4.1	4.8	5.8	5.3	6.3	3.1	2.6	3.3	6.3	3.3	2.6	9.7	5.5
May 21	2.7	2.9	1.4	4.4	3.8	1.6	1.7	1.2	2.6	2.4	3.6	4.7	5.5	8.2	8.0	7.2	8.2	6.0	7.4	5.3	8.0	**32.9**	4.5	7.2	1.2	**32.9**	5.9
May 22	9.3	5.5	7.9	6.1	4.8	7.1	11.8	12.5	13.0	12.8	14.3	14.6	13.1	13.3	14.3	13.6	15.5	17.2	14.1	14.5	14.1	16.0	17.2	19.9	4.8	19.9	12.6
May 23	20.3	17.4	17.8	17.1	18.0	17.8	15.4	14.3	15.0	15.2	14.9	14.5	14.4	13.9	13.9	13.3	13.5	13.7	14.1	13.5	12.8	12.2	11.4	10.1	10.1	20.3	**14.8**
May 24	7.9	7.0	5.1	7.8	9.4	8.4	5.8	6.8	8.4	9.1	11.1	10.7	11.1	9.1	9.9	8.6	2.8	0.9	5.2	5.9	6.1	3.2	2.4	1.3	0.9	11.1	6.8
May 25	4.7	3.7	3.1	4.0	4.2	4.4	2.0	2.8	3.7	3.7	3.3	8.2	9.7	1.8	11.9	2.0	4.9	3.3	5.8	3.7	1.6	1.1	2.0	4.8	1.1	11.9	4.2
May 26	3.5	3.3	2.9	2.7	3.7	2.1	3.3	3.0	2.7	4.4	7.9	9.0	10.4	10.7	10.9	10.7	9.7	8.8	7.1	5.5	2.6	2.4	1.9	1.5	1.5	10.9	5.4
May 27	2.2	0.3	2.0	0.4	1.8	1.0	4.9	5.7	8.1	7.2	8.7	10.6	11.4	14.4	15.3	16.0	12.6	15.1	13.2	5.0	3.7	4.8	7.4	7.9	0.3	16.0	7.5
May 28	7.7	8.2	10.8	12.8	8.6	9.4	9.0	9.0	15.1	15.8	21.9	22.3	22.4	22.7	17.5	16.4	14.4	14.3	19.0	18.6	11.0	7.8	8.2	7.3	7.3	22.7	13.8
May 29	6.5	6.8	7.4	10.6	7.0	8.8	14.6	22.7	22.9	19.0	18.0	17.9	19.0	20.3	20.1	19.1	20.1	20.6	18.7	15.4	8.1	6.3	5.2	5.9	5.2	22.9	14.2
May 30	5.1	1.0	4.5	4.9	4.0	3.9	0.3	1.8	1.2	9.6	13.8	16.7	8.5	3.2	2.0	4.3	6.2	3.9	4.0	3.8	0.4	2.0	3.4	3.4	0.3	16.7	4.7
May 31	4.9	6.4	10.2	10.7	11.6	10.0	0.5	2.7	1.9	4.7	9.4	10.9	11.2	12.2	11.0	9.4	9.4	10.4	11.3	11.8	5.5	6.1	6.7	9.0	0.5	12.2	8.2
Diurnal Maximum	20.3	17.4	17.8	17.1	18.0	17.8	15.4	22.7	22.9	19.0	28.1	30.3	23.2	22.7	20.8	26.7	20.9	20.6	19.0	21.7	18.8	32.9	19.2	19.9			
Diurnal Average	6.3	5.6	5.8	5.6	5.4	5.5	5.5	6.4	7.8	8.4	10.0	11.4	11.0	10.5	10.5	10.3	10.2	9.8	9.7	8.6	6.6	7.2	6.0	6.1			

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

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



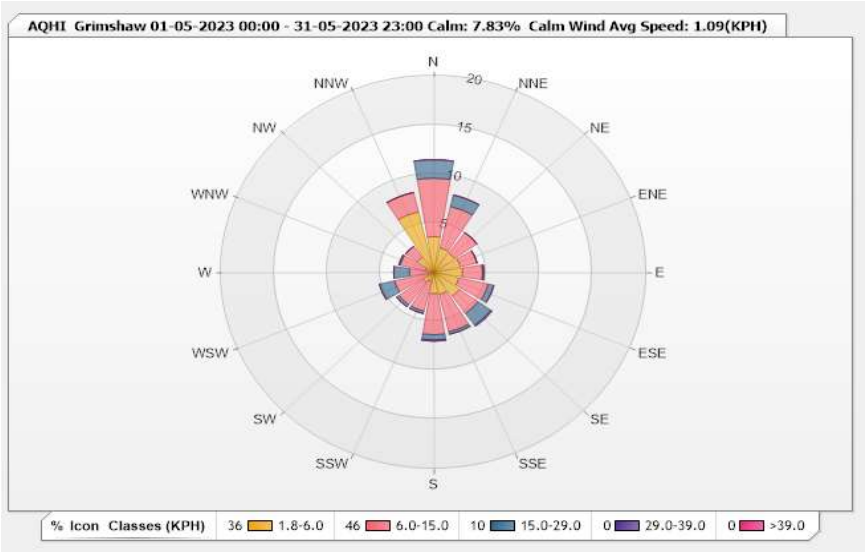


Station: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 05-2023

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

Calm (WS<1.8kph): 7.83% Valid Data: 99.60%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	3.64	5.94	1.89	0	0	11.47
NNE	2.56	4.32	1.21	0	0	8.09
NE	2.43	2.56	0	0	0	4.99
ENE	2.56	1.62	0	0	0	4.18
E	2.7	1.89	0.13	0	0	4.72
ESE	2.43	2.83	0.54	0	0	5.8
SE	2.97	2.16	1.48	0.13	0	6.74
SSE	2.29	3.91	0.27	0	0	6.47
S	2.16	4.18	0.54	0.13	0	7.01
SSW	0.94	3.1	0.27	0	0	4.31
SW	1.21	2.83	0.27	0	0	4.31
WSW	0.54	3.24	1.48	0	0	5.26
W	0.27	2.02	1.48	0	0	3.77
WNW	0.81	2.43	0.13	0	0	3.37
NW	1.89	1.35	0	0	0	3.24
NNW	6.34	2.02	0	0	0	8.36
Summary	35.74	46.4	9.69	0.26	0	92.09



Peace River Area Monitoring Program

AQHI - Grimshaw Station - May 2023

Summary of Hourly Averages

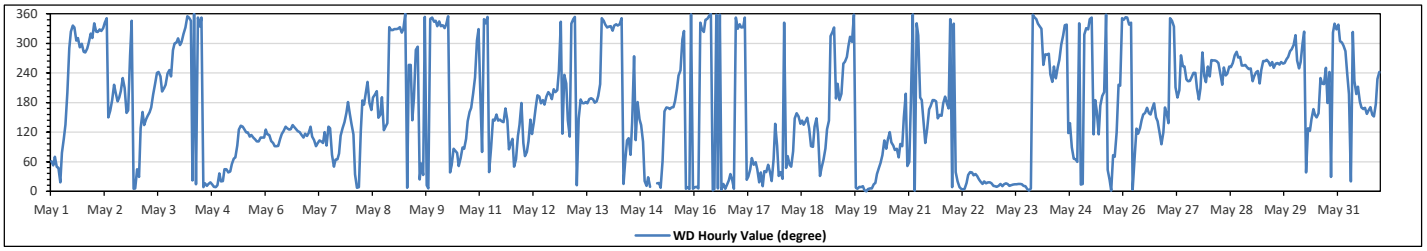
WIND DIRECTION (VWD) in sector

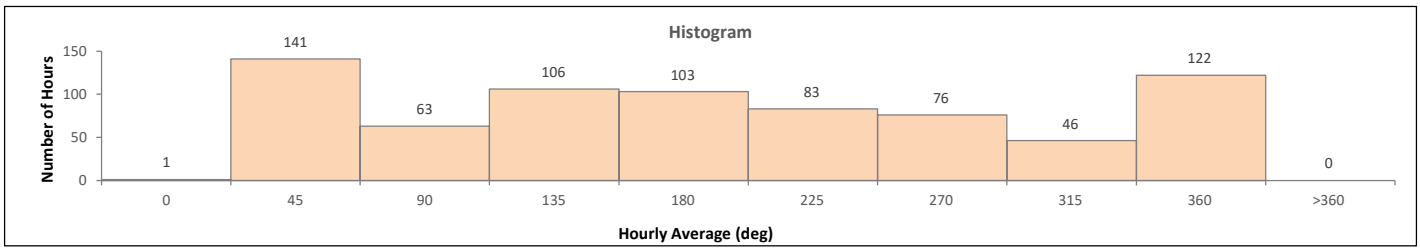
Monthly Average:	47 (NE)	degree	
Hours in Service:	744		
Hours of Data:	741		
Hours of Missing Data:	3		
Hours of Calibration:	0		
Operational Uptime:	99.6		

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
May 1	ENE	NE	ENE	NE	NE	NNE	ENE	ESE	SE	SSW	WNW	NW	NNW	NNW	NW	NW	WNW	WNW	W	W	WNW	WNW	NW	NW	337	NNW
May 2	NNW	NW	NW	NNW	NW	NNW	NNW	N	SSE	SSE	S	SW	SSW	S	S	SSW	SW	SSW	SSE	SSE	W	NNW	N	N	263	W
May 3	NE	NNE	SE	SSE	SE	SE	SSE	SSE	SSE	SSW	SW	WSW	WSW	SW	SSW	SSW	SW	WSW	WSW	SW	WNW	WNW	WNW	NW	213	SSW
May 4	WNW	WNW	NW	NNW	N	N	NNW	NNE	N	NNE	N	NNW	N	N	NNE	NNE	NNE	NNE	NNE	N	N	NNE	NE	NNE	358	N
May 5	NNE	NE	NE	NE	NE	NE	ENE	ENE	E	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE	ESE	93	E
May 6	SE	ESE	ESE	E	E	E	E	E	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	115	ESE
May 7	ESE	SE	ESE	ESE	E	E	ESE	E	E	ESE	E	SE	SE	ENE	NE	ENE	ENE	ENE	ESE	SE	SE	SSE	S	SSE	109	ESE
May 8	SE	ESE	NE	N	N	ESE	S	S	SSW	SW	S	SSE	S	SSW	SSW	SSE	SSE	S	ESE	SE	SE	NNW	NW	NW	162	SSE
May 9	NNW	NNW	NNW	NNW	NW	NNW	N	N	WSW	WSW	SE	S	WNW	WNW	NNE	NE	NNE	N	NNE	N	N	N	NNW	NNW	340	NNW
May 10	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	NE	E	E	ENE	NE	ENE	E	E	ESE	SE	SSE	SSE	SSW	SW	NW	NNW	40	NE
May 11	S	E	NNW	NNW	N	NE	E	SE	SE	SSE	SE	SE	SE	SE	SSE	SE	E	E	ESE	NE	ENE	ESE	SE	S	114	ESE
May 12	E	ENE	E	E	SE	ESE	SE	S	SSW	S	S	S	S	S	SSW	SSW	S	SSW	SSW	SSW	WSW	NNW	ESE	SW	171	S
May 13	SW	SE	ESE	NNW	NNW	N	NNE	SE	S	S	S	S	S	S	S	S	S	S	S	SW	N	NNW	NNW	NNW	193	S
May 14	NNW	NNW	NW	NNW	NNW	NNW	NNW	N	NNE	ENE	ESE	ESE	ENE	SE	W	ESE	S	SE	SE	E	NNE	NNE	NNE	N	30	NNE
May 15	K	K	K	NNE	NNE	N	ENE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SW	WSW	NW	NW	N	N	N	N	N	337	NNW
May 16	N	N	N	NNW	NNW	NW	NNW	N	N	N	N	N	N	N	N	N	NNE	N	NNE	NNE	NE	NNE	N	N	1	N
May 17	NNW	NNW	NNW	NNW	N	NNE	NNE	NE	ENE	NE	ENE	NE	NNE	NE	N	NE	NE	NE	NE	NNE	ENE	SE	E	NNE	32	NNE
May 18	NE	NNE	NNW	NE	ENE	NE	NE	E	SE	SSE	SSE	SE	SE	SE	SE	SSE	SE	E	E	SE	SE	ESE	NNE	NE	99	E
May 19	ENE	E	SE	SE	NW	NW	NNW	S	SW	S	SSW	WSW	W	W	WNW	NW	WNW	N	N	N	N	N	N	N	324	NW
May 20	N	N	N	N	NNE	NNE	NE	NE	ENE	ENE	ESE	E	ESE	ESE	E	E	E	E	ENE	E	E	SSE	SSW	NE	68	ENE
May 21	ENE	S	N	N	NNW	NW	S	S	SE	E	SE	SSE	S	S	S	S	SE	SSE	SSE	S	S	S	SSE	NNW	163	SSE
May 22	N	NNW	NE	NNE	N	N	N	N	NNE	NNE	NE	NE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	19	NNE
May 23	N	N	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	NNW	9	N
May 24	NNW	NNW	NNW	WSW	W	W	W	SW	SW	WSW	SW	WSW	W	WNW	NW	NNW	NNW	ESE	SE	E	ENE	ENE	ENE	NNW	299	WNW
May 25	NNE	NNE	NW	NNW	NNW	NNW	N	ESE	S	SSE	ESE	S	S	SSW	N	NE	NNE	N	ENE	ENE	ESE	SW	SSW	N	34	NE
May 26	NNW	N	N	NNW	NNW	N	ENE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SE	ESE	E	ESE	SSE	127	SE
May 27	SSE	SE	N	NNW	NNW	SSW	S	SSW	W	WSW	WSW	SW	SW	SW	SW	WSW	WSW	SSW	S	SSW	W	SW	SW	WSW	232	SW
May 28	SW	W	W	W	W	WSW	WSW	SW	WSW	SW	WSW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	255	WSW
May 29	SW	SW	WSW	WSW	SW	WSW	W	W	W	W	WSW	W	WSW	WSW	WSW	WSW	W	WSW	WSW	W	W	WNW	WNW	WNW	258	WSW
May 30	NW	W	WSW	W	WNW	NW	NE	SE	ESE	SE	SSE	SSE	SSE	SSE	SW	SW	SW	WSW	S	WSW	NNE	NW	NNW	NNW	234	SW
May 31	NNW	WNW	WNW	WNW	WNW	WSW	SSW	NNE	NW	SW	SSW	SSW	S	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	S	SW	WSW	211	SSW

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 - May 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	32.9	kph	on May 21 at hr 21	Hours in Service:	744
Maximum Daily Value:	14.8	kph	on May 23	Hours of Data:	741
Minimum Hourly Value:	0.2	kph	on May 2 at hr 20	Hours of Missing Data:	3
Minimum Daily Value:	3.0	kph	on May 8	Hours of Calibration:	0
Monthly Average:	7.9	kph		Operational Uptime:	99.6

WIND DIRECTION

Monthly Average: 47 degree (NE)

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			
May 1	3.8	5.7	4.7	4.6	4.2	2.5	4.1	3.4	6.0	2.3	3.4	4.0	8.9	6.8	8.5	8.7	12.4	10.2	11.7	11.4	9.3	7.5	7.2	5.8	2.3	12.4	6.5
	ENE	NE	ENE	NE	NE	NNE	ENE	ESE	SE	SSW	WNW	NW	NNW	NNW	NW	NW	WNW	WNW	W	W	WNW	WNW	NW	NW			
May 2	5.2	3.3	5.9	5.0	4.1	7.4	5.5	4.0	4.7	5.9	7.0	6.8	7.8	10.2	9.8	7.5	5.8	6.3	10.9	5.5	**0.2**	3.3	3.0	2.1	**0.2**	10.9	5.7
	NNW	NW	NW	NNW	NW	NNW	NNW	N	SSE	SSE	S	SW	SSW	S	S	SSW	SW	SSW	SSE	SSE	W	NNW	N	N			
May 3	1.3	0.3	2.8	4.1	2.9	4.4	9.9	16.3	15.9	13.2	11.7	12.2	11.2	14.6	17.0	14.1	12.4	14.5	11.3	12.1	7.2	7.6	7.7	9.0	0.3	17.0	9.7
	NE	NNE	SE	SSE	SE	SE	SSE	SSE	SSE	SSW	SW	WSW	WSW	SW	SSW	SSW	SW	WSW	WSW	SW	WNW	WNW	WNW	NW			
May 4	8.1	8.9	8.0	7.6	12.0	11.8	11.5	6.8	11.0	6.4	6.9	5.0	10.6	12.8	10.8	13.9	14.9	14.6	14.6	15.0	14.6	11.2	7.9	6.7	5.0	15.0	10.5
	WNW	WNW	NW	NNW	N	N	NNW	NNE	N	NNE	N	NNW	N	N	NNE	NNE	NNE	NNE	NNE	N	N	NNE	NE	NNE			
May 5	7.7	11.1	10.0	7.6	6.5	9.4	8.7	6.9	7.1	11.6	28.1	30.3	23.2	16.5	18.1	13.6	9.9	6.7	7.8	8.7	9.4	9.3	8.3	8.4	6.5	30.3	11.9
	NNE	NE	NE	NE	NE	NE	ENE	ENE	E	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE	ESE			
May 6	14.4	9.7	9.3	5.9	7.4	8.0	8.5	9.3	11.2	15.7	21.1	26.1	21.9	21.5	20.8	26.7	20.9	17.7	12.4	9.0	6.3	5.7	9.1	7.2	5.7	26.7	13.6
	SE	ESE	ESE	E	E	E	E	E	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE			
May 7	6.6	11.1	5.7	5.3	8.7	6.4	6.7	7.9	8.6	8.2	8.7	16.2	16.8	7.3	7.8	9.5	8.4	6.8	8.4	6.9	5.4	5.3	3.6	1.6	1.6	16.8	7.8
	ESE	SE	ESE	ESE	E	E	ESE	E	E	ESE	E	SE	SE	ENE	NE	ENE	ENE	ENE	ESE	SE	SE	SSE	S	SSE			
May 8	1.1	0.8	1.2	1.6	1.7	1.4	1.2	3.3	3.5	3.3	3.2	3.5	6.5	6.2	5.8	4.1	3.4	2.9	3.2	2.6	1.1	2.3	3.0	4.8	0.8	6.5	**3.0**
	SE	ESE	NE	N	N	ESE	S	S	SSW	SW	S	SSE	S	SSW	SSW	SSE	SSE	S	ESE	SE	SE	NNW	NW	NW			
May 9	5.7	6.4	6.2	2.8	3.3	5.0	0.5	0.7	**0.2**	2.1	0.8	1.4	1.7	2.7	4.8	4.6	6.0	8.1	7.2	4.4	4.9	5.8	4.6	5.9	**0.2**	8.1	4.0
	NNW	NNW	NNW	NNW	NW	NNW	N	N	WSW	WSW	SE	S	WNW	WNW	NNE	NE	NNE	N	NNE	N	N	N	NNW	NNW			
May 10	5.2	4.2	6.1	5.2	3.9	5.0	4.1	1.9	3.8	3.0	3.3	6.1	6.8	5.1	3.2	5.5	6.0	11.6	11.0	8.9	9.3	6.0	3.0	3.0	1.9	11.6	5.5
	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	NE	E	E	ENE	NE	ENE	E	E	ESE	SE	SSE	SSE	SSW	SW	NW	NNW			
May 11	2.4	0.8	3.9	3.8	2.2	2.4	1.7	2.4	5.4	9.4	12.7	11.9	8.2	8.0	8.1	7.7	15.0	9.7	5.2	4.7	4.5	4.5	5.2	3.3	0.8	15.0	6.0
	S	E	NNW	NNW	N	NE	E	SE	SE	SSE	SE	SE	SE	SE	SSE	SE	E	E	ESE	NE	ENE	ESE	SE	S			
May 12	3.9	4.0	3.3	3.6	2.4	2.0	3.1	4.2	8.1	10.7	10.8	13.1	10.9	9.4	11.3	10.8	10.5	10.5	11.3	6.8	0.4	2.4	1.3	1.9	0.4	13.1	6.5
	E	ENE	E	E	SE	ESE	SE	S	SSW	S	S	S	S	S	SSW	SSW	S	SSW	SSW	SSW	WSW	NNW	ESE	SW			
May 13	1.7	1.7	1.4	3.2	3.2	2.2	0.7	3.9	5.9	6.1	7.8	11.5	11.3	14.2	9.6	16.3	18.8	18.3	12.9	7.9	5.1	5.4	4.2	4.1	0.7	18.8	7.4
	SW	SE	ESE	NNW	NNW	N	NNE	SE	S	S	S	S	S	S	S	S	S	S	S	SW	N	NNW	NNW	NNW			
May 14	5.9	6.0	6.5	6.7	6.3	6.1	2.2	3.2	3.3	4.3	4.5	4.7	3.8	2.1	0.6	1.5	4.7	6.1	5.0	1.7	2.5	3.9	3.5	3.5	0.6	6.7	4.1
	NNW	NNW	NW	NNW	NNW	NNW	NNW	N	NNE	ENE	ESE	ESE	ENE	SE	W	ESE	S	SE	SE	E	NNE	NNE	NNE	N			
May 15	**K**	**K**	**K**	2.5	0.8	1.8	1.4	6.7	11.6	12.0	12.6	13.7	12.4	11.4	8.5	7.2	6.0	5.1	4.7	21.7	18.8	20.7	19.2	19.4	0.8	21.7	10.4
	K	**K**	**K**	NNE	NNE	N	ENE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SW	WSW	NW	NW	N	N	N	N	N			
May 16	17.7	12.2	10.8	5.2	5.9	7.1	14.6	12.8	12.6	14.0	14.4	15.0	11.4	11.8	12.1	11.5	10.6	8.9	9.8	8.1	6.0	5.3	4.2	4.7	4.2	17.7	10.3
	N	N	N	NNW	NNW	NW	NNW	N	N	N	N	N	N	N	N	N	NNE	N	NNE	NNE	NE	NNE	N	N			
May 17	3.5	4.6	5.2	5.4	4.9	3.5	5.1	6.2	7.7	6.2	4.5	5.5	5.9	8.6	6.4	6.6	7.1	5.8	6.7	4.6	2.4	2.7	2.2	4.5	2.2	8.6	5.2
	NNW	NNW	NNW	NNW	N	NNE	NNE	NE	ENE	NE	ENE	NE	NNE	NE	N	NE	NE	NE	NE	NNE	ENE	SE	E	NNE			
May 18	4.8	2.7	1.5	3.0	4.3	3.4	5.1	3.2	9.6	10.7	9.7	11.3	11.7	11.5	12.8	12.0	8.5	9.2	8.5	5.7	5.5	1.1	1.1	2.4	1.1	12.8	6.6
	NE	NNE	NNW	NE	ENE	NE	NE	E	SE	SSE	SSE	SE	SE	SE	SE	SSE	SE	E	E	SE	SE	ESE	NNE	NE			
May 19	4.1	3.5	1.1	0.6	0.5	1.4	0.8	5.9	4.5	5.3	7.6	9.1	7.6	9.2	10.7	13.2	12.0	9.8	11.3	15.6	15.8	14.4	11.0	9.6	0.5	15.8	7.7
	ENE	E	SE	SE	NW	NW	NNW	S	SW	S	SSW	WSW	W	W	WNW	NW	WNW	N	N	N	N	N	N	N			
May 20	9.7	8.6	6.3	7.6	6.0	4.9	4.5	6.5	6.9	6.8	4.2	4.6	4.6	4.8	4.1	4.8	5.8	5.3	6.3	3.1	2.6	3.3	6.3	3.3	2.6	9.7	5.5
	N	N	N	N	NNE	NNE	NE	NE	ENE	ENE	ESE	E	ESE	ESE	E	E	E	E	ENE	E	E	SSE	SSW	NE			
May 21	2.7	2.9	1.4	4.4	3.8	1.6	1.7	1.2	2.6	2.4	3.6	4.7	5.5	8.2	8.0	7.2	8.2	6.0	7.4	5.3	8.0	**32.9**	4.5	7.2	1.2	**32.9**	5.9
	ENE	S	N	N	NNW	NW	S	S	SE	E	SE	SSE	S	S	S	S	SE	SSE	SSE	S	S	S	SSE	NNW			
May 22	9.3	5.5	7.9	6.1	4.8	7.1	11.8	12.5	13.0	12.8	14.3	14.6	13.1	13.3	14.3	13.6	15.5	17.2	14.1	14.5	14.1	16.0	17.2	19.9	4.8	19.9	12.6
	N	NNW	NE	NNE	N	N	N	N	NNE	NNE	NE	NE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			
May 23	20.3	17.4	17.8	17.1	18.0	17.8	15.4	14.3	15.0	15.2	14.9	14.5	14.4	13.9	13.9	13.3	13.5	13.7	14.1	13.5	12.8	12.2	11.4	10.1	10.1	20.3	**14.8**
	N	N	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	NNW			
May 24	7.9	7.0	5.1	7.8	9.4	8.4	5.8	6.8	8.4	9.1	11.1	10.7	11.1	9.1	9.9	8.6	2.8	0.9	5.2	5.9	6.1	3.2	2.4	1.3	0.9	11.1	6.8
	NNW	NNW	NNW	WSW	W	W	W	SW	SW	WSW	SW	WSW	W	WNW	NW	NNW	NNW	ESE	SE	E	ENE	ENE	ENE	NNW			
May 25	4.7	3.7	3.1	4.0	4.2	4.4	2.0	2.8	3.7	3.7	3.3	8.2	9.7	1.8	11.9	2.0	4.9	3.3	5.8	3.7	1.6	1.1	2.0	4.8	1.1	11.9	4.2
	NNE	NNE	NW	NNW	NNW	NNW	N	ESE	S	SSE	ESE	S	S	SSW	N	NE	NNE	N	ENE	ENE	ESE	SW	SSW	N			
May 26	3.5	3.3	2.9	2.7	3.7	2.1	3.3	3.0	2.7	4.4	7.9	9.0	10.4	10.7	10.9	10.7	9.7	8.8	7.1	5.5	2.6	2.4	1.9	1.5	1.5	10.9	5.4
	NNW	N	N	NNW	NNW	N	ENE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SE	ESE	E	ESE	SSE			
May 27	2.2	0.3	2.0	0.4	1.8	1.0	4.9	5.7	8.1	7.2	8.7	10.6	11.4	14.4	15.3	16.0	12.6	15.1	13.2	5.0	3.7	4.8	7.4	7.9	0.3	16.0	7.5
	SSE	SE	N	NNW	NNW	SSW	S	SSW	W	WSW	WSW	SW	SW	SW	SW	WSW	WSW	SSW	S	SSW	W	SW	SW	WSW			
May 28	7.7	8.2	10.8	12.8	8.6	9.4	9.0	9.0	15.1	15.8	21.9	22.3	22.4	22.7	17.5	16.4	14.4	14.3	19.0	18.6	11.0	7.8	8.2	7.3	7.3	22.7	13.8
	SW	W	W	W	W	WSW	WSW	SW	WSW	SW	WSW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW			
May 29	6.5	6.8	7.4	10.6	7.0	8.8	14.6	22.7	22.9	19.0	18.0	17.9	19.0	20.3	20.1	19.1	20.1	20.6	18.7	15.4	8.1	6.3	5.2	5.9	5.2	22.9	14.2
	SW	SW	WSW	WSW	SW	WSW	W	W	W	W	WSW	W	WSW	WSW	WSW	WSW	W	WSW	WSW	W	W	WNW	WNW	WNW			
May 30	5.1	1.0	4.5	4.9	4.0	3.9	0.3	1.8	1.2	9.6	13.8	16.7	8.5	3.2	2.0	4.3	6.2	3.9	4.0	3.8	0.4	2.0	3.4	3.4	0.3	16.7	4.7
	NW	W	WSW	W	WNW	NW	NE	SE	ESE	SE	SSE	SSE	SSE	SSE	SW	SW	SW	WSW	S	WSW	NNE	NW	NNW	NNW			
May 31	4.9	6.4	10.2	10.7	11.6	10.0	0.5	2.7	1.9	4.7	9.4	10.9	11.2	12.2	11.0	9.4	9.4	10.4	11.3	11.8	5.5	6.1	6.7	9.0	0.5	12.2	8.2
	NNW	WNW	WNW	WNW	WNW	WSW	SSW	NNE	NW	SW	SSW	SSW	S	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	S	SW	WSW			

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, 154 of 154, ends the May 2023 Monthly Ambient Air Quality Monitoring Report.

Peace River Area Monitoring Program

MAY 2023

Ambient Air Monitoring Calibration Report

- 842-B STATION-

CAL-PRAMP-202305-01561

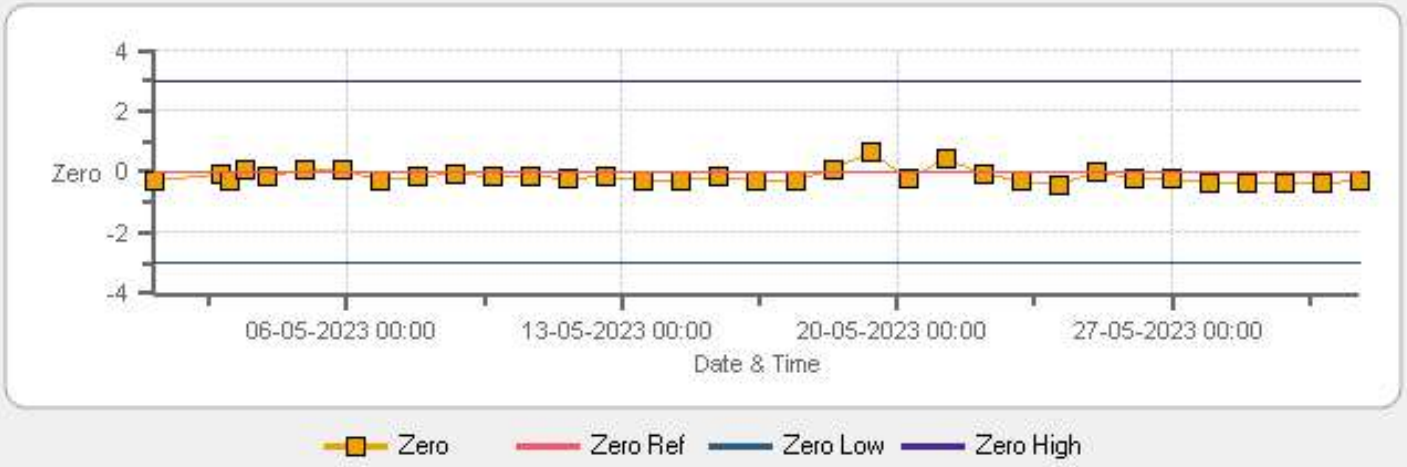
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

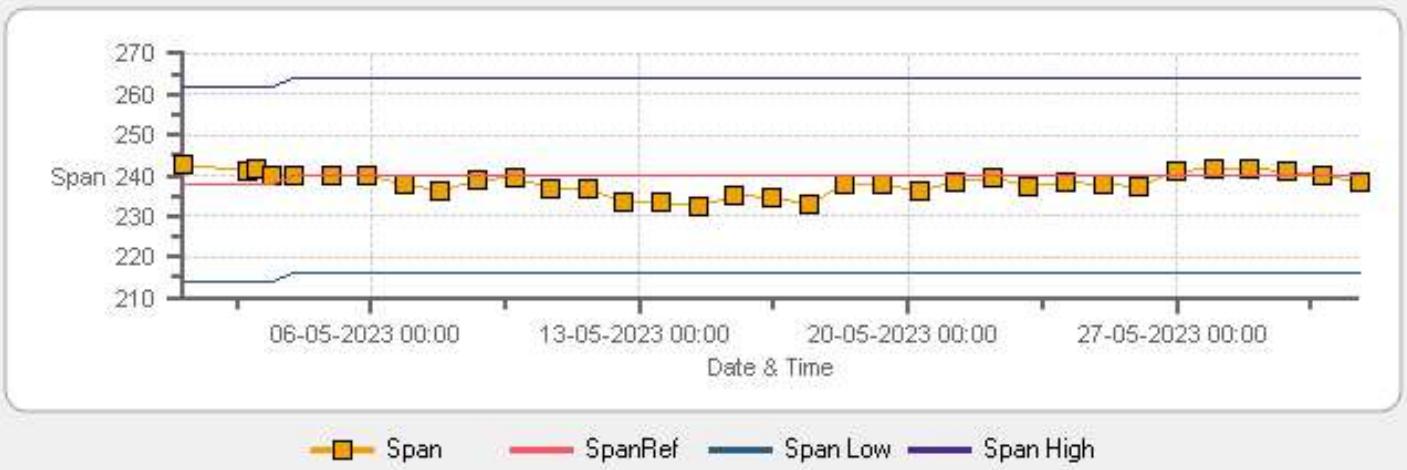
June 12, 2023

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

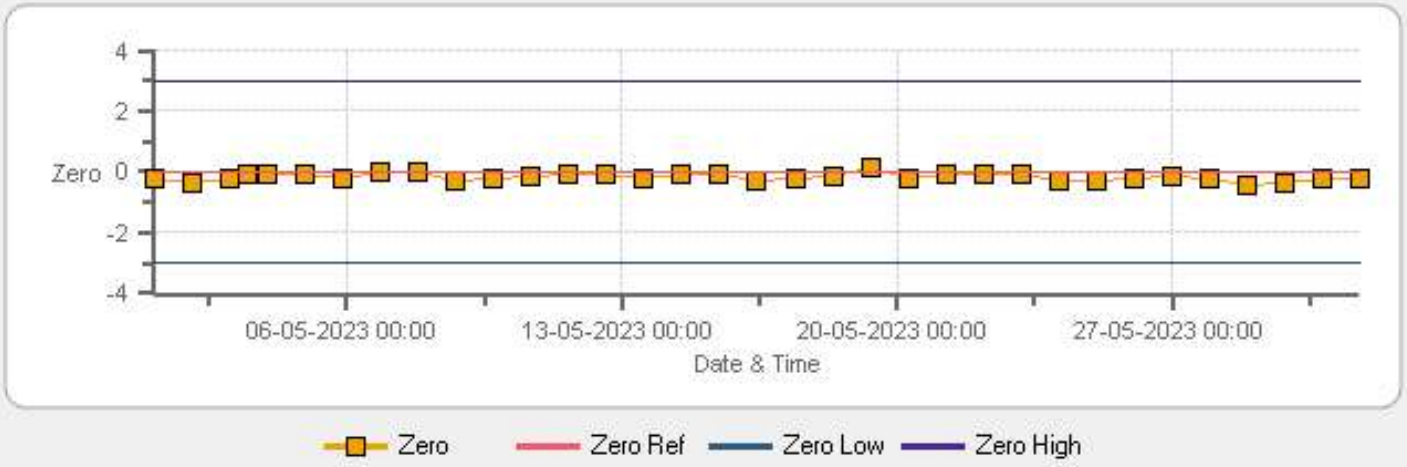
SO2[ppb] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Zero



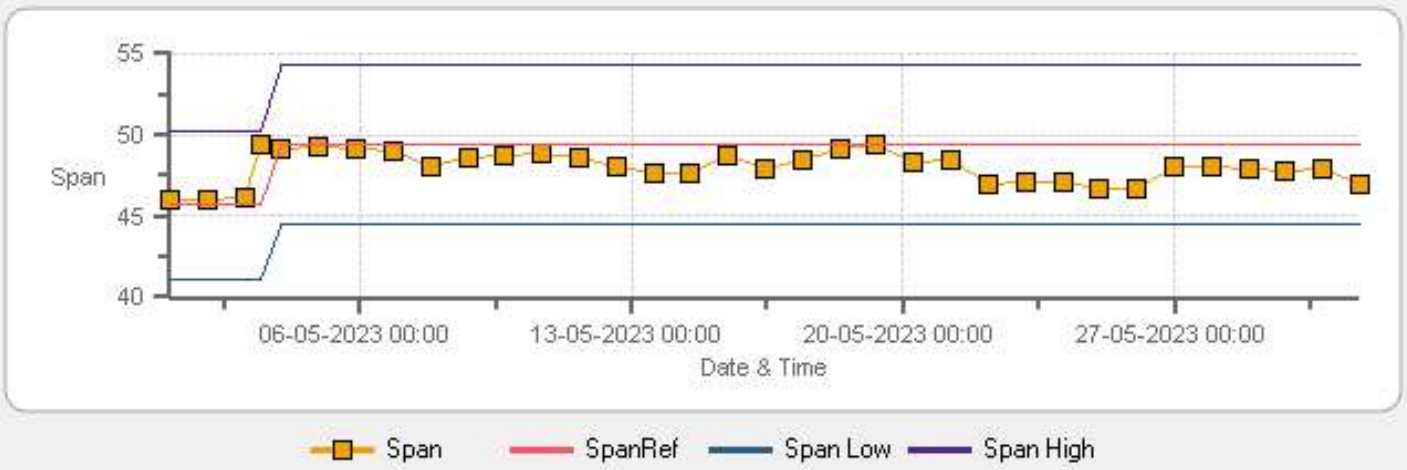
SO2[ppb] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Span

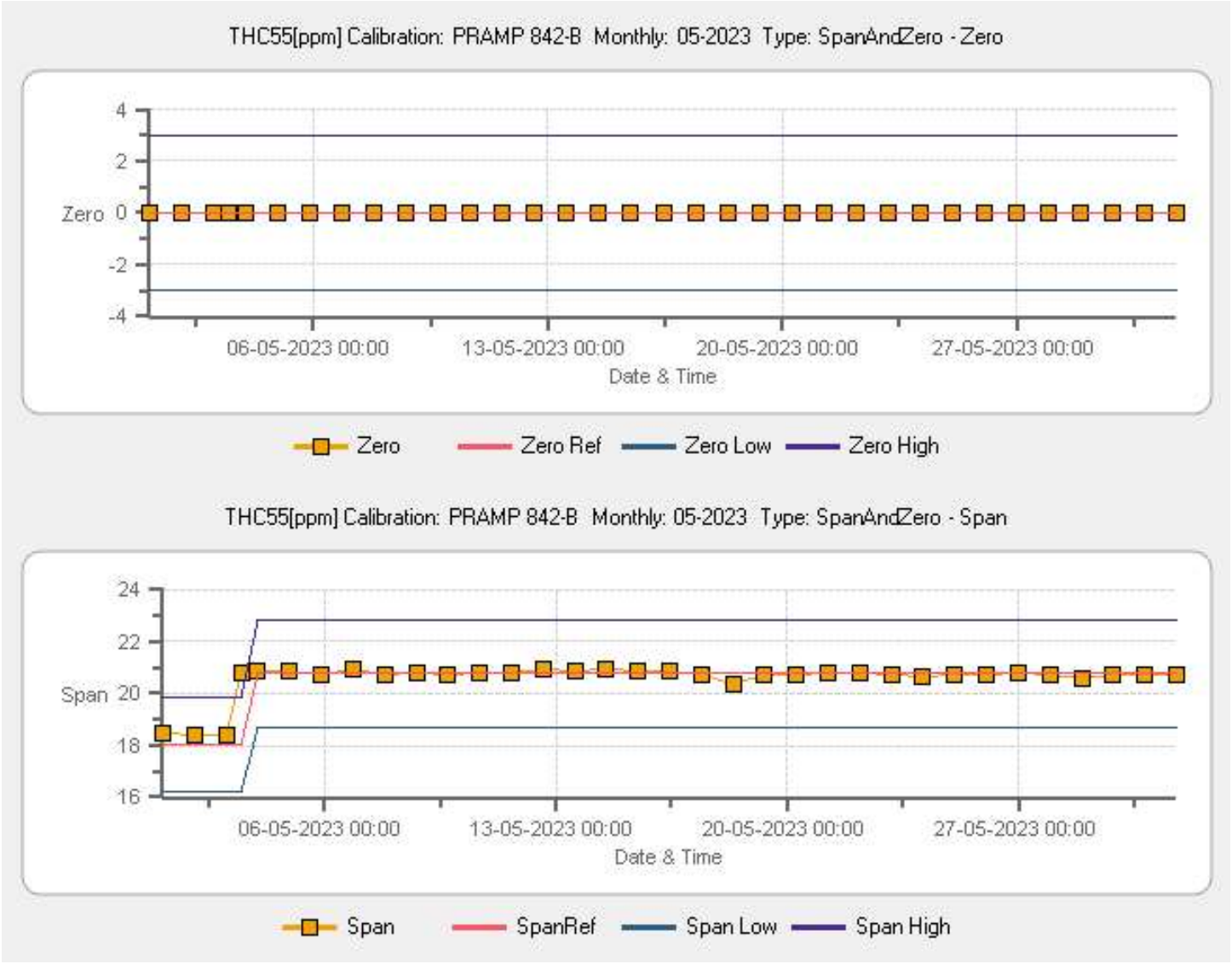


TRS[ppb] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Zero



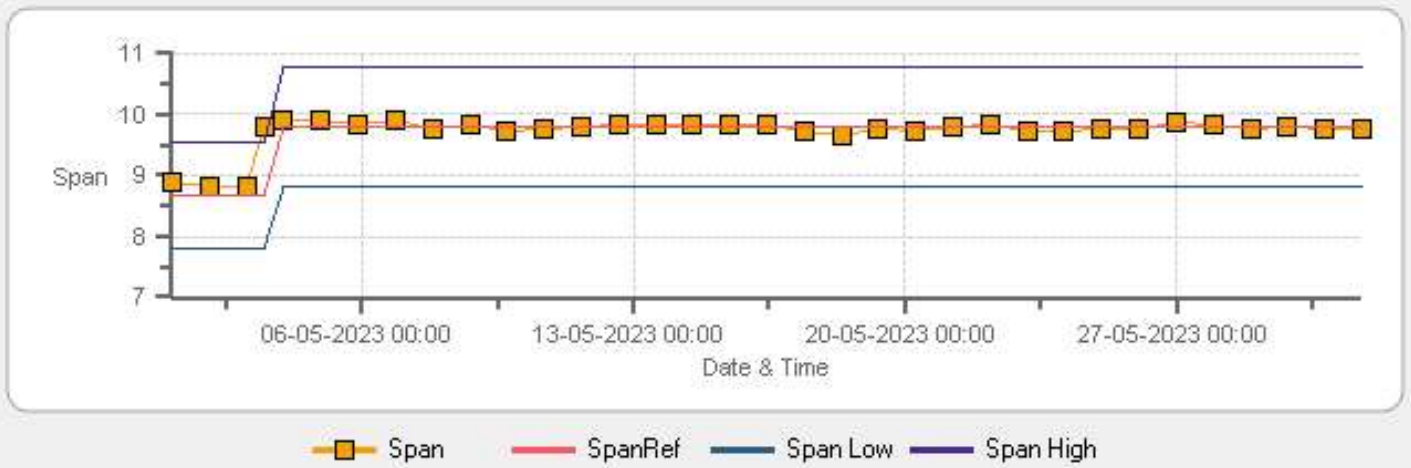
TRS[ppb] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Span




THC55[ppm] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Span
24
22
Span 20
18
16
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

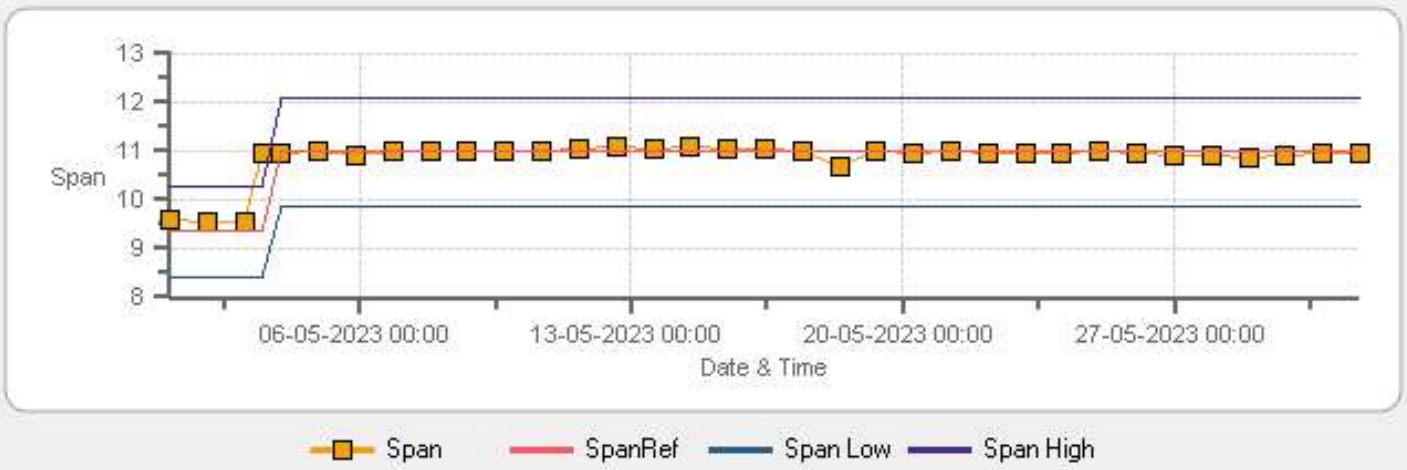
CH4[ppm] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Zero

CH4[ppm] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Zero

NMHC[ppm] Calibration: PRAMP 842-B Monthly: 05-2023 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	03-May-2023	PREVIOUS CALIBRATION DATE:	04-Apr-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.8
LOCATION:	842b	BAROMETRIC (mBar):	934
PURPOSE	Routine	START TIME (MST):	06:49
PERFORMED BY:	Limin Li	END TIME (MST):	10:15

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	422
INITIAL		FINAL	
BKG/OFFSET	8.8	BKG/OFFSET	8.7
COEF/SLOPE	1.114	COEF/SLOPE	1.097
Expected (reference) Value	237.8	Expected (reference) Value	239.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	20-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL126764	HIGH ID	n/a
CONC (ppm):	50.30	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	27-Oct-2030	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		
6000		6000	0.00	0	0		
5955	45.30	6000	379.77	386	379.6	0.984	1.000
5979	21.50	6000	180.24	n/a	179.3	n/a	1.005
5989	10.70	6000	89.70	n/a	89.8	n/a	0.999

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.0%

COMMENTS:

Sample filter changed.


SO2[ppb] Station: PRAMP 842-B Daily: 03-05-2023 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:	03-May-2023	PREVIOUS CALIBRATION DATE:	04-Apr-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.997
CLIENT:	PRAMP	TEMPERATURE (°C):	22.8
LOCATION:	842b	BAROMETRIC (mBar):	934
PURPOSE	Routine	START TIME (MST):	06:48
PERFORMED BY:	Limin Li	END TIME (MST):	10:52

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	371
INITIAL		FINAL	
BKG/OFFSET	13.6	BKG/OFFSET	14.2
COEF/SLOPE	0.888	COEF/SLOPE	0.942
Expected (reference) Value	45.68	Expected (reference) Value	49.42

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	042531101	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	07:09	SO2 Conc (ppb)	385
END TIME:	07:35	Analyzer Response (ppb)	0.0

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	-0.2	0		
7443	57.40	7500	78.06	72.56	78.04	1.073	1.000
7472	27.90	7500	37.94	n/a	37.55	n/a	1.010
7486	14.00	7500	19.04	n/a	18.84	n/a	1.011

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	-0.2%

COMMENTS:

TRS Converter CDNOVA CDN #583. Sample filter changed.

TRS[ppb] Station: PRAMP 842-B Daily: 03-05-2023 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	03-May-2023	PREVIOUS CALIBRATION DATE:	27-Apr-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3
LOCATION:	842b	BAROMETRIC (mBar):	933
PURPOSE	Routine	START TIME (MST):	07:23
PERFORMED BY:	Limin Li	END TIME (MST):	11:33

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1314057759	1309
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.998	1.002	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Environics	MAKE:	API	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	6100	MODEL:	701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	5212	ID:	1105	CYLINDER (psi):	500		LOW ID:	n/a
MFC CALIBRATION DATE:	21-Mar-2023	OXIDIZER ID:	111	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
	8.67	9.35	18.02		9.79	10.98	20.77

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3500		3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3416	84.00	3500	14.59	13.40	27.99	14.53	13.30	27.83	14.60	13.38	27.98	1.004	1.007	1.006	0.999	1.001	1.000
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.28	6.73	14.01	n/a	n/a	n/a	1.002	0.995	0.999
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.63	3.38	7.01	n/a	n/a	n/a	1.005	0.991	0.998

LINEAR REGRESSION ANALYSIS:

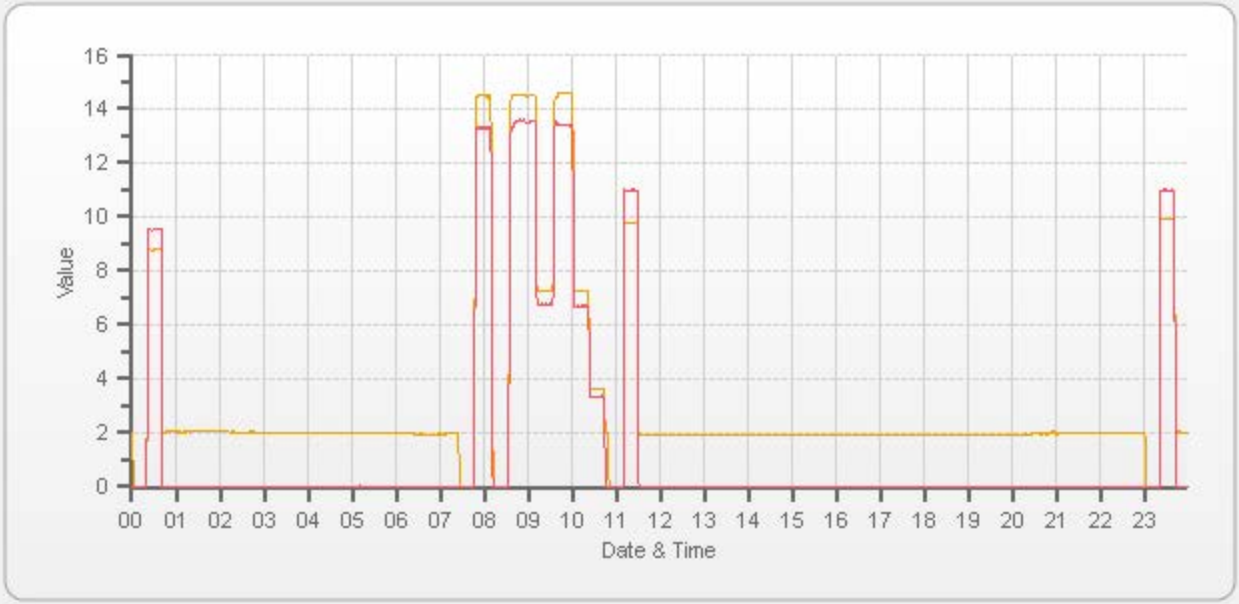
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	-0.1%
NMHC	1.000	0.998	0.1%
THC	1.000	1.000	0.0%

Comments:

H2 = AMA HG300 #190567058
BV analyzer.
Calibrator error = Redo adjusted high from 09:36am.

Use Zero Chrom? **No**

Station: PRAMP 842-B Daily: 03-05-2023 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	May 3, 2023		
Technician:	Limin Li		
Station:	PRAMP 842b		
Unit:	**Make:**	**Model:**	**Serial #:**
Precipitation Sampler:	RM Young	52202	TB 15878
Temperature Sensor:	Rotronic	HC2A-S3	20370767
Barometric Pressure Sensor:	MetOne	92	Y23362
Relative Humidity Sensor:	Rotronic	HC2A-S3	20370767
Anemometer:	RM Young	05305AQ	174802

PRECIPITATION SENSOR CHECK

Checklist:	**Reply:**	**Comments:**
Previous check date:	April 4, 2023	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	test time: 09:16am -09:19am.
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:	April 4, 2023
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	F.S. 160459244 expires June 6, 2023
Reference Temperature (^{o}C):	19.8
Station - Ambient Temperature (^{o}C):	19.9
Temperature Difference (^{o}C):	-0.1

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	April 4, 2023	
Reference Barometer ID:	Brunton 05535 Expires Feb 27, 2024	
Reference Pressure - Units/Reading:	millibar	933.2
Station Pressure - Units/Reading:	millibar	932.6
Pressure Tolerance +/- 15% of error:	793 - 1073	0.06%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	April 4, 2023	
Reference Hygrometer ID:	F.S. 160459244 expires June 6, 2023	
Reference Hygrometer % RH- Reading:	36.40	
Station Hygrometer % RH- Reading:	37.90	
RH Tolerance +/- 15% of difference:	30.94 - 41.86	-4.1%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	April 4, 2023	Previous check date:	April 4, 2023
Wind Speed Observed (kph):	20~30	Wind Direction Observed:	S
Wind speed on Data Logger (kph):	25.6	Wind Direction on Data Logger:	S
		Wind Direction Pass/Fail?:	Pass

Comments

Put screen on rain gauge.

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.

END OF REPORT

Peace River Area Monitoring Program

MAY 2023

Ambient Air Monitoring Calibration Report

- 986-C STATION-

CAL-PRAMP-202305-01562

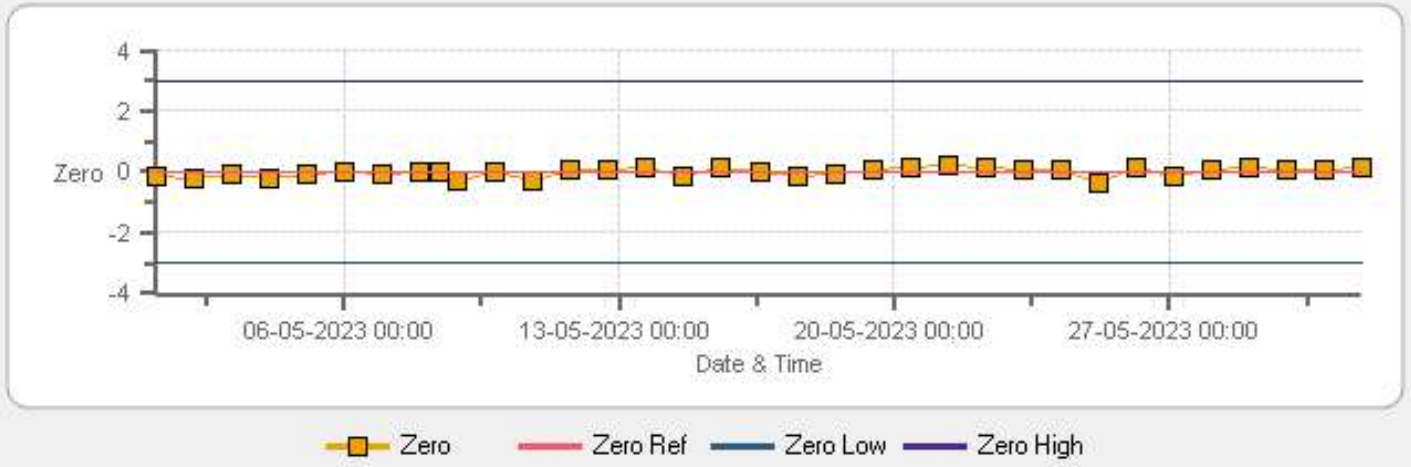
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

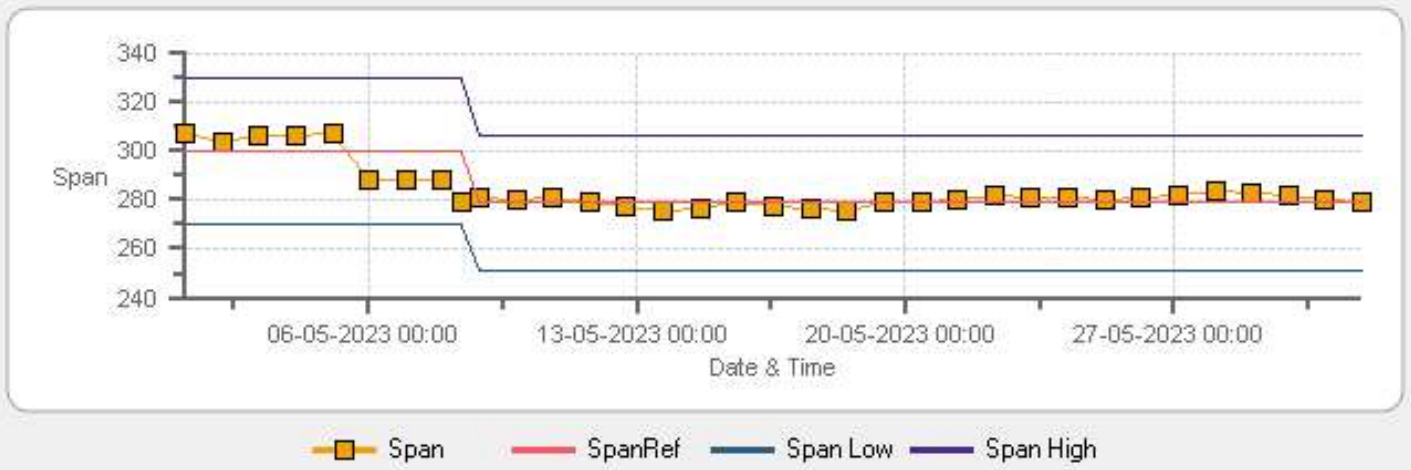
June 12, 2023

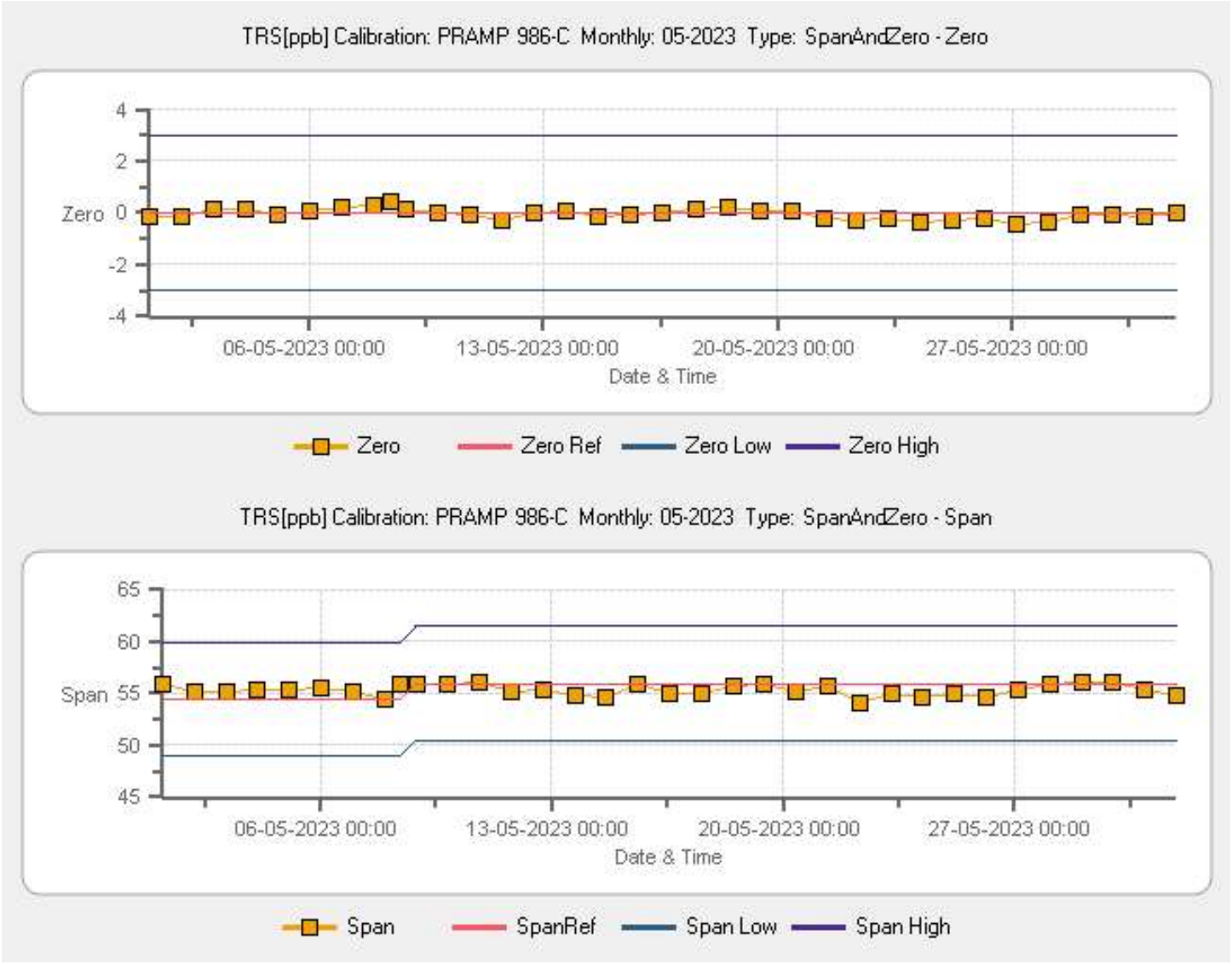
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

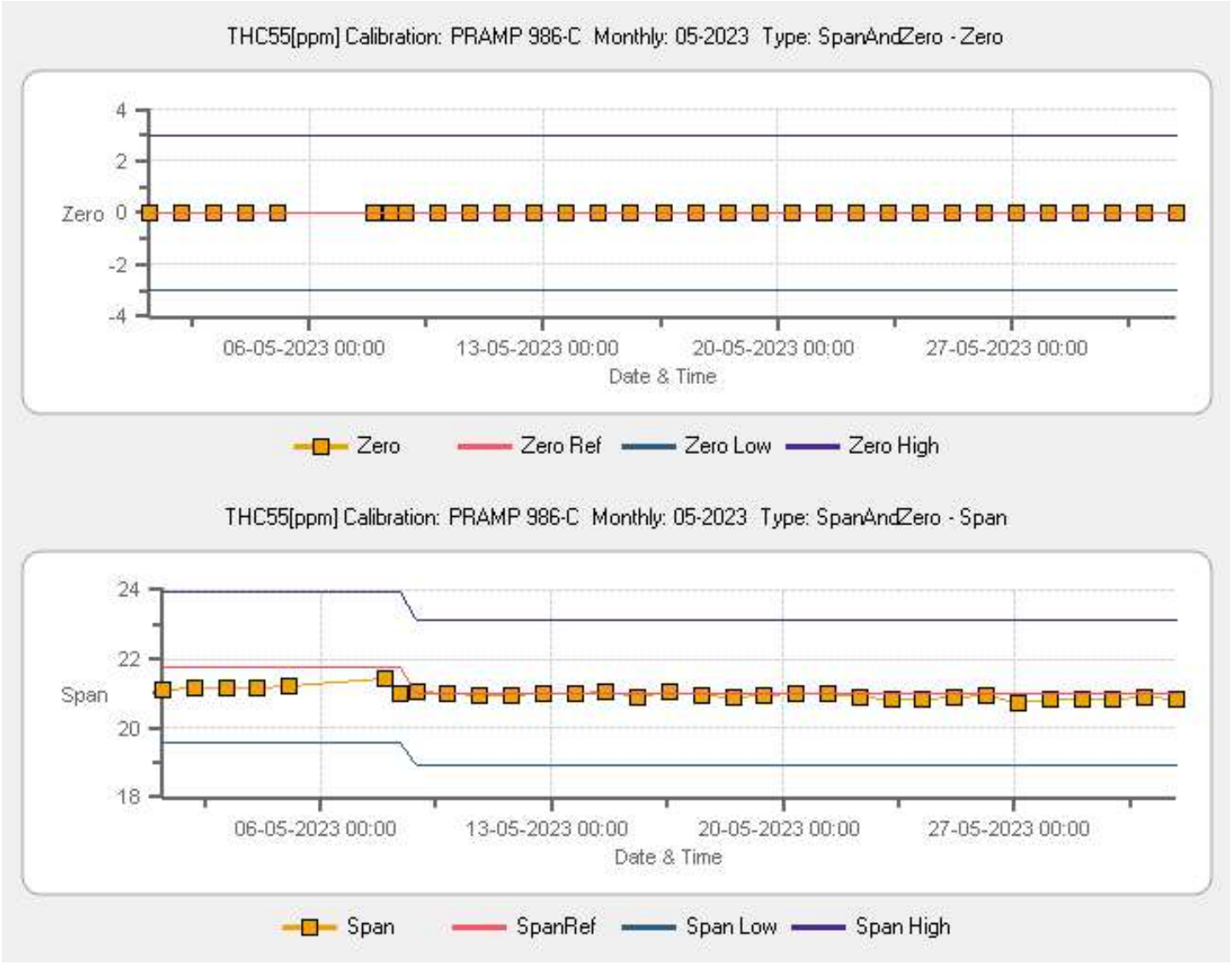
SO2[ppb] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Zero



SO2[ppb] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Span



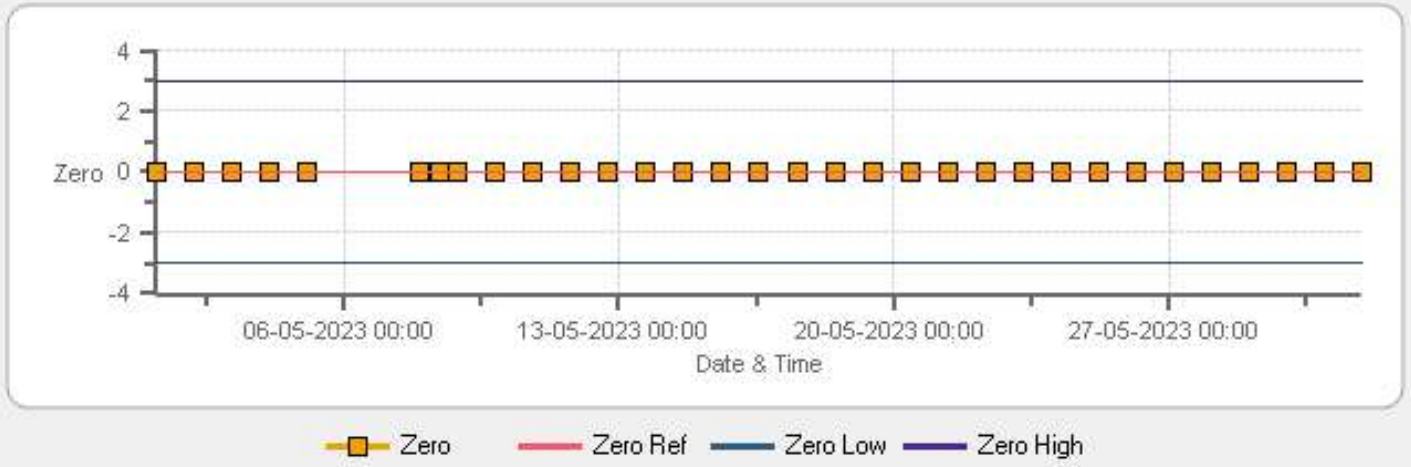

TRS[ppb] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Span
65
60
Span 55
50
45
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Span
24
22
Span
20
18
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

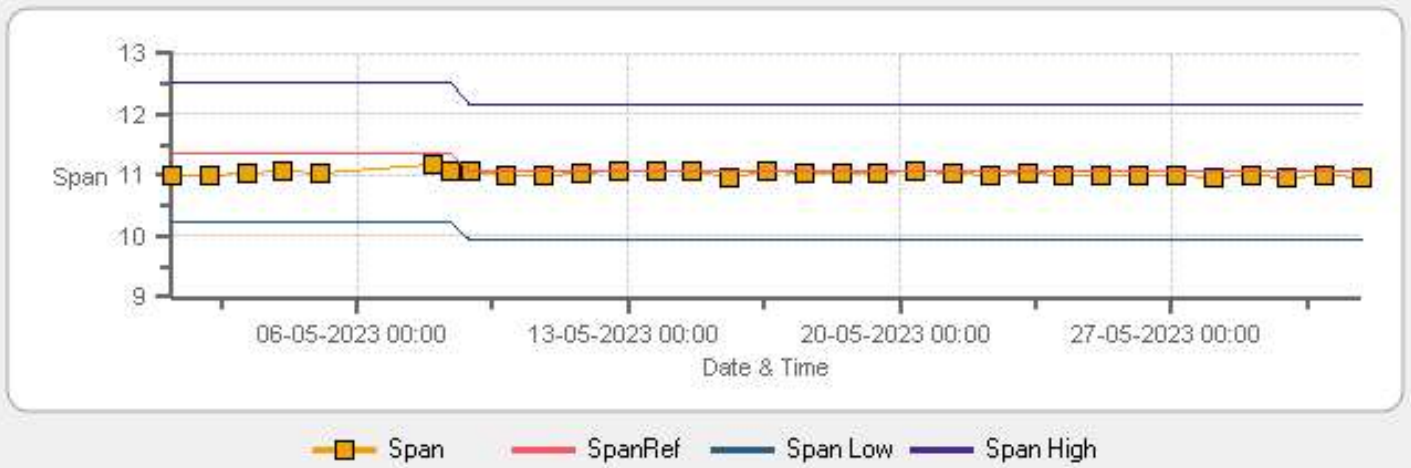
CH4[ppm] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Zero

CH4[ppm] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Span

NMHC[ppm] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 986-C Monthly: 05-2023 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	08-May-2023	PREVIOUS CALIBRATION DATE:	19-Apr-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	986c	BAROMETRIC (mBar):	941
PURPOSE	Routine	START TIME (MST):	06:29
PERFORMED BY:	Limin Li	END TIME (MST):	10:07

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	428
INITIAL		FINAL	
BKG/OFFSET	16.8	BKG/OFFSET	16.2
COEF/SLOPE	1.049	COEF/SLOPE	1.019
Expected (reference) Value	299.8	Expected (reference) Value	279

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	20-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL126764	HIGH ID	n/a
CONC (ppm):	50.30	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	27-Oct-2030	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:

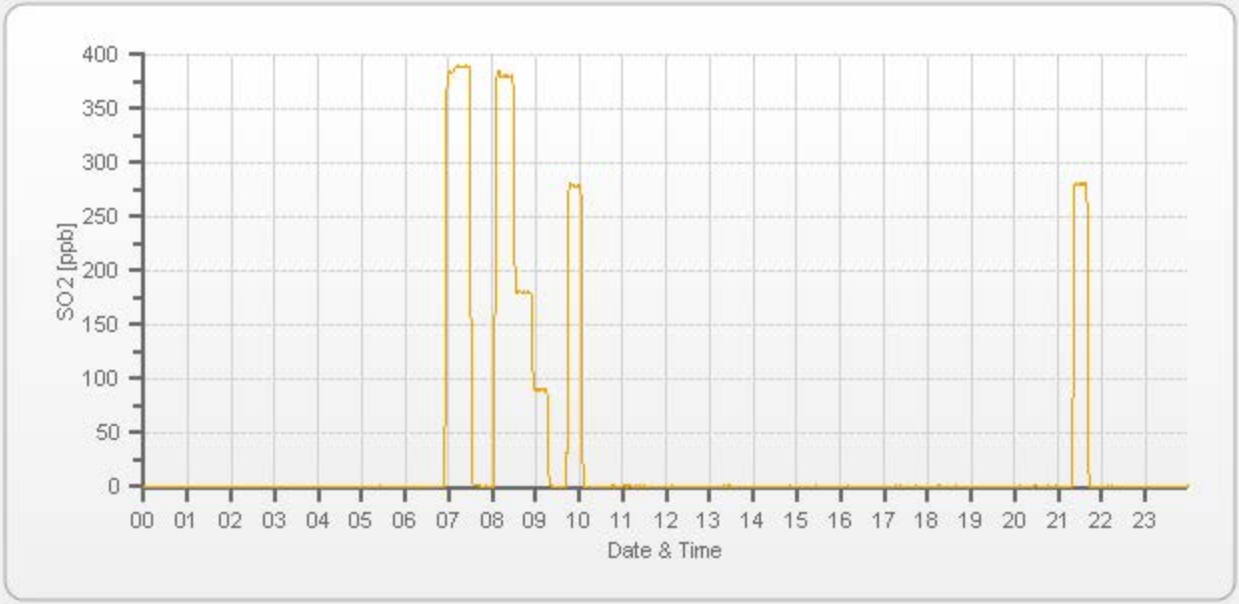
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
6000		6000	0.00	-0.4	0		
5955	45.30	6000	379.77	389	379.8	0.975	1.000
5979	21.50	6000	180.24	n/a	180.2	n/a	1.000
5989	10.70	6000	89.70	n/a	89.6	n/a	1.001

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Sample filter changed.


SO2[ppb] Station: PRAMP 986-C Daily: 08-05-2023 Type: AVG 1 Min. [1 Min.]
SO2 [ppb]
400
350
300
250
200
150
100
50
0
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
SO2 [ppb]

TRS Analyzer Calibration by Dilution

DATE:	08-May-2023	PREVIOUS CALIBRATION DATE:	19-Apr-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.997
CLIENT:	PRAMP	TEMPERATURE (°C):	23.4
LOCATION:	986C	BAROMETRIC (mBar):	941
PURPOSE	Routine	START TIME (MST):	06:18
PERFORMED BY:	Limin Li	END TIME (MST):	10:13

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	422
INITIAL		FINAL	
BKG/OFFSET	14.7	BKG/OFFSET	14.7
COEF/SLOPE	0.935	COEF/SLOPE	0.946
Expected (reference) Value	54.51	Expected (reference) Value	55.97

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	042531101	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	06:43	SO2 Conc (ppb)	385
END TIME:	07:03	Analyzer Response (ppb)	0.0

CALIBRATION:

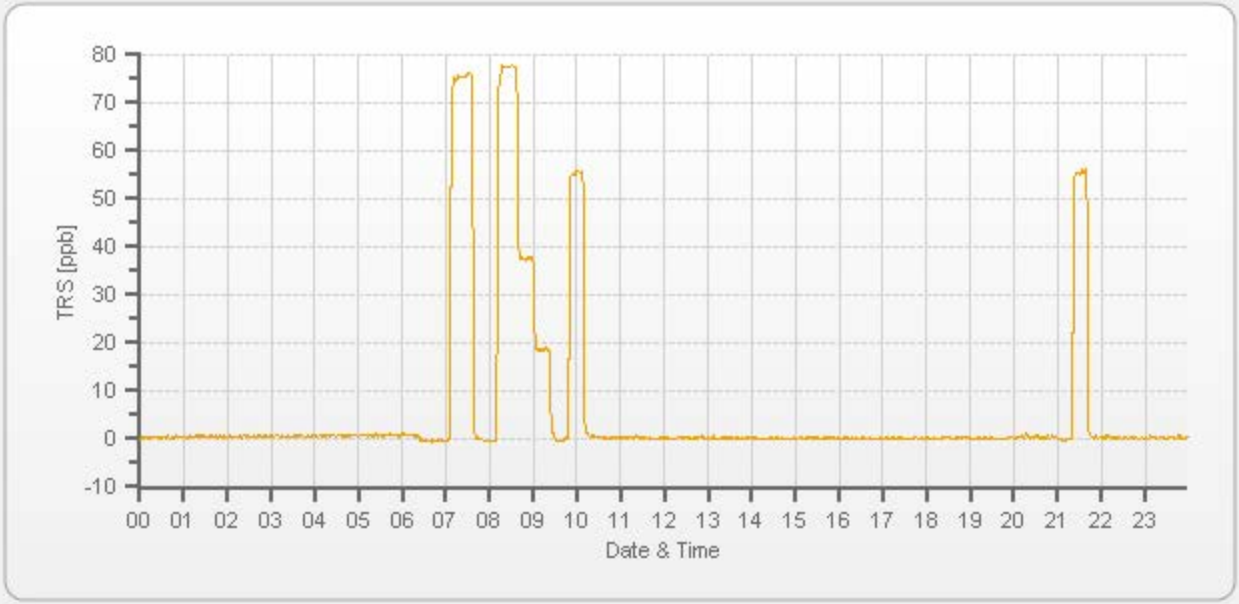
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	0.1	0		
7443	57.40	7500	78.06	76.24	78.14	1.025	0.999
7472	27.90	7500	37.94	n/a	38.14	n/a	0.995
7486	14.00	7500	19.04	n/a	18.8	n/a	1.013

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	-0.1%

COMMENTS:

TRS Converter BV's CDNOVA CDN #552
Sample filter changed.


TRS[ppb] Station: PRAMP 986-C Daily: 08-05-2023 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:	08-May-2023	PREVIOUS CALIBRATION DATE:	19-Apr-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	23.6
LOCATION:	986C	BAROMETRIC (mBar):	941
PURPOSE	Routine	START TIME (MST):	06:50
PERFORMED BY:	Limin Li	END TIME (MST):	09:58

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1433563261	1047
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	0.996	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Environics	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	6100	MODEL:	701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	5212	ID:	1105	CYLINDER (psi):	900		LOW ID:	n/a
MFC CALIBRATION DATE:	21-Mar-2023	OXIDIZER ID:	111	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
	10.38	11.38	21.76		9.94	11.07	21.01

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3500		3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3416	84.00	3500	14.59	13.40	27.99	15.04	13.54	28.58	14.61	13.40	28.01	0.970	0.990	0.979	0.999	1.000	0.999
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.35	6.63	13.98	n/a	n/a	n/a	0.993	1.010	1.001
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.68	3.20	6.88	n/a	n/a	n/a	0.991	1.047	1.017

LINEAR REGRESSION ANALYSIS:

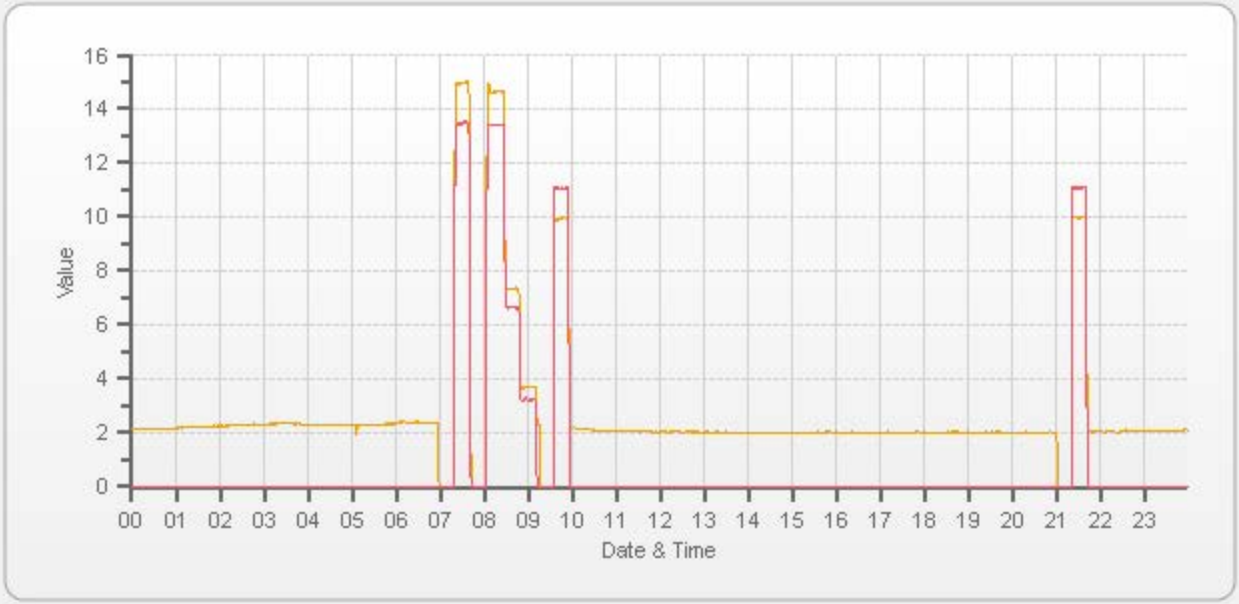
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	0.1%
NMHC	1.000	1.003	-0.4%
THC	1.000	1.002	-0.1%

Comments:

Sample filter changed
BV analyzer

Use Zero Chrom? **No**

Station: PRAMP 986-C Daily: 08-05-2023 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	May 8, 2023		
Technician:	Limin Li		
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:	April 19, 2023	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	Tested: 08:39am-08:41am
Is the screen on the housing? (screen should be on between July and September	yes	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

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

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	April 19, 2023	
Parameter:	Temperature @ 2 metres	
Reference Thermometer ID:	F.S. 160459244 expires June 6, 2023	
Reference Temperature (^{o}C):	5.4	
Station - Ambient Temperature (^{o}C):	5.0	
Temperature Difference (^{o}C):	0.4	

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	April 19, 2023	
Reference Barometer ID:	Brunton 05535 Expires Feb 27, 2024	
Reference Pressure - Units/Reading:	millibar	940.9
Station Pressure - Units/Reading:	millibar	940.4
Pressure Tolerance +/- 15% of error:	800 - 1082	0.05%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	April 19, 2023	
Reference Hygrometer ID:	F.S. 160459244 expires June 6, 2023	
Reference Hygrometer % RH- Reading:	91.30	
Station Hygrometer % RH- Reading:	99.00	
RH Tolerance +/- 15% of difference:	77.61 - 105.00	-8.4%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	April 19, 2023	Previous check date:	April 19, 2023
Wind Speed Observed (kph):	5-~`15	Wind Direction Observed:	NE
Wind speed on Data Logger (kph):	10.8	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)

END OF REPORT

Peace River Area Monitoring Program

MAY 2023

Ambient Air Monitoring Calibration Report

- RENO-B STATION-

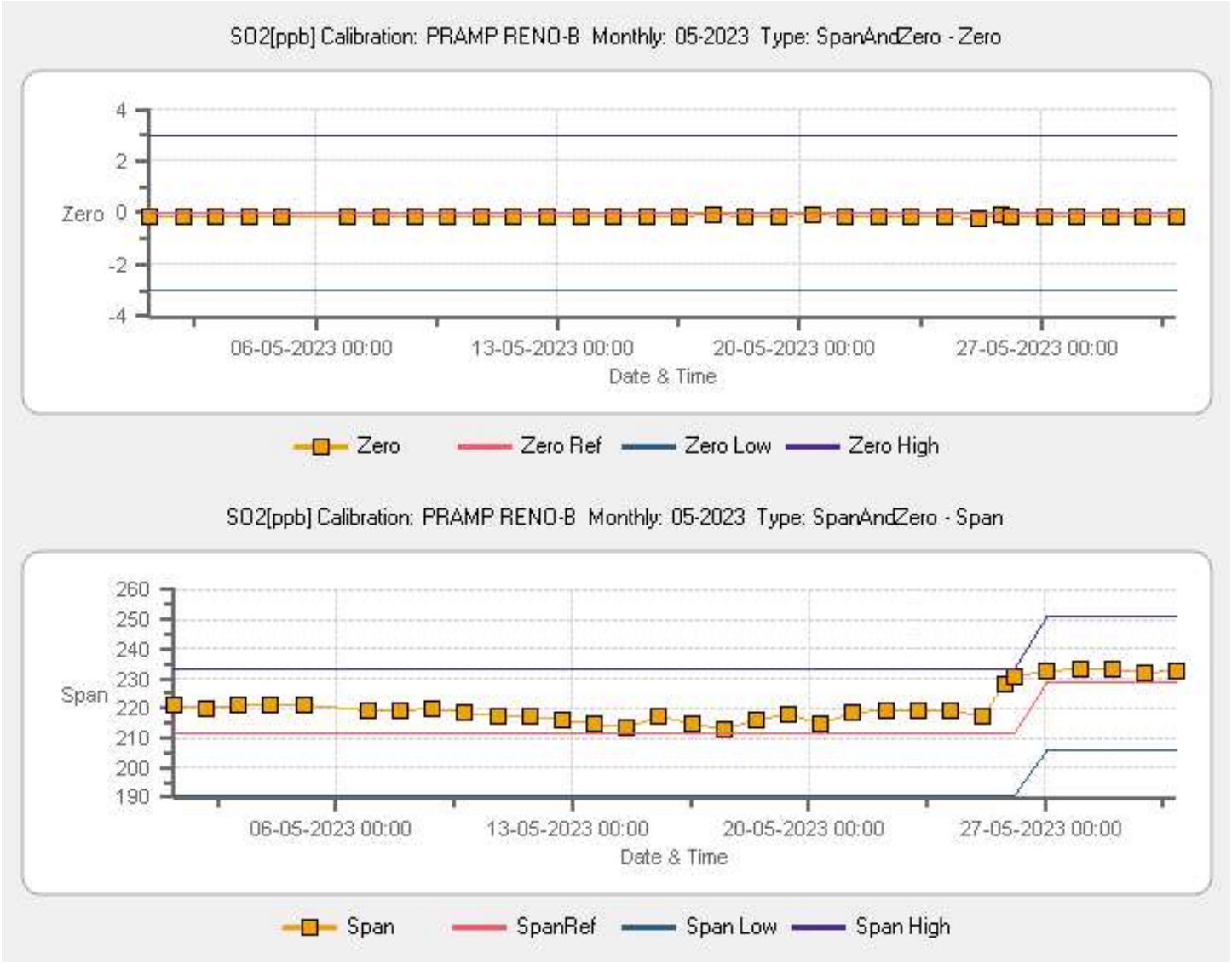
CAL-PRAMP-202305-01563

Operation and Maintenance:
Bureau Veritas Canada

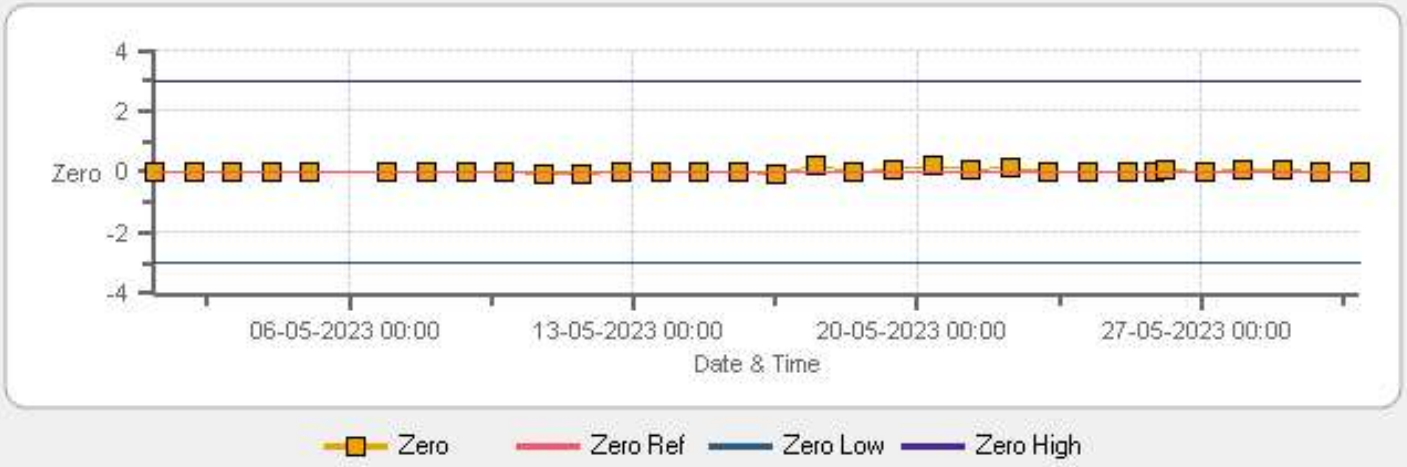
Data Validation and Report:
Bureau Veritas Canada

June 12, 2023

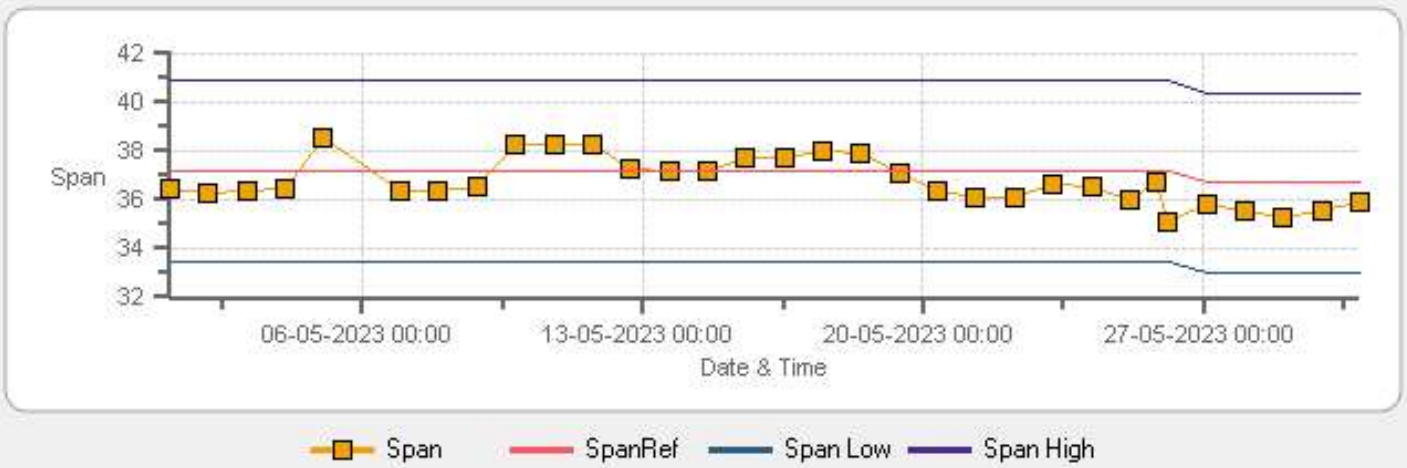
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

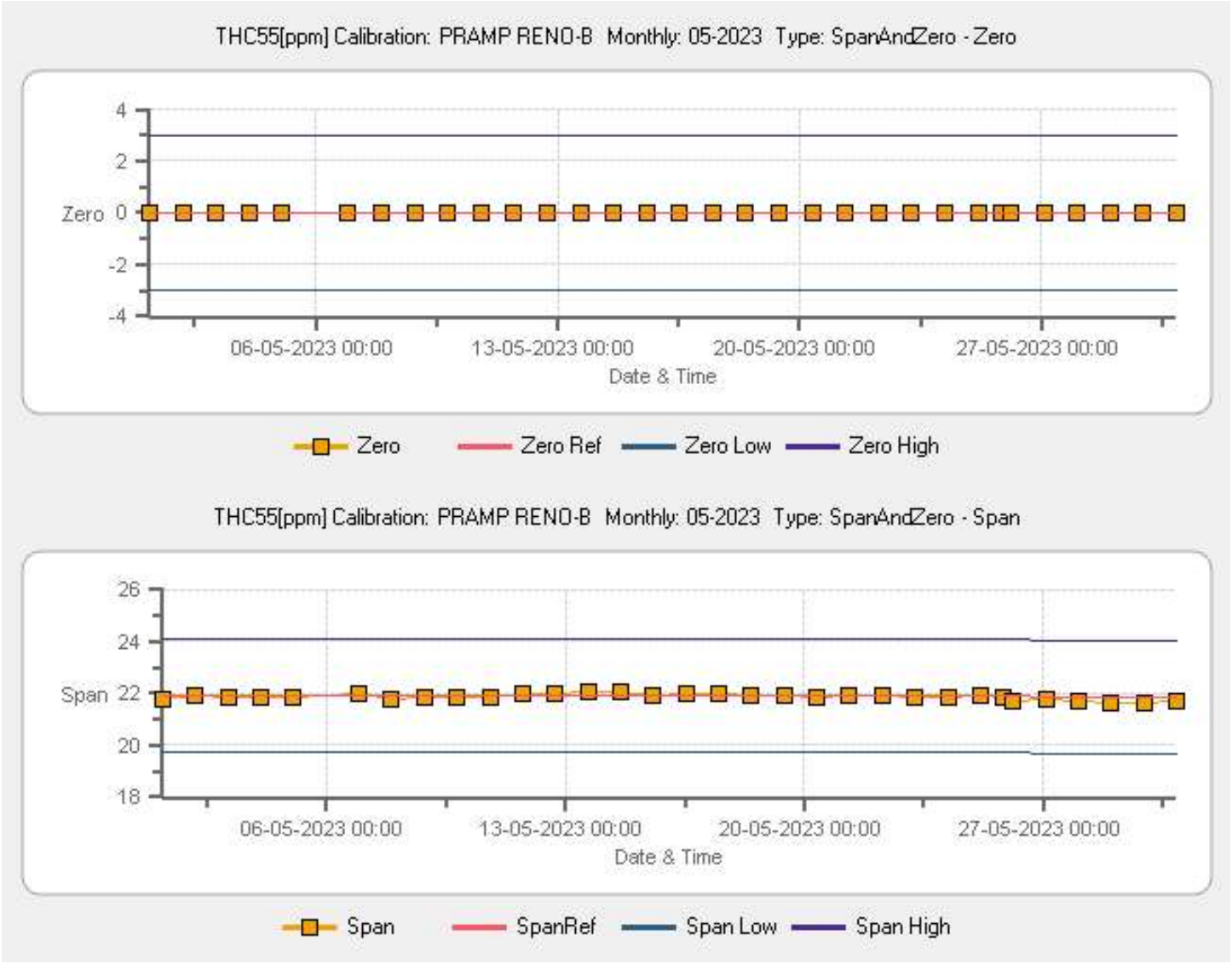

SO2[ppb] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Zero
Zero
4
2
0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Span
Span
260
250
240
230
220
210
200
190
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

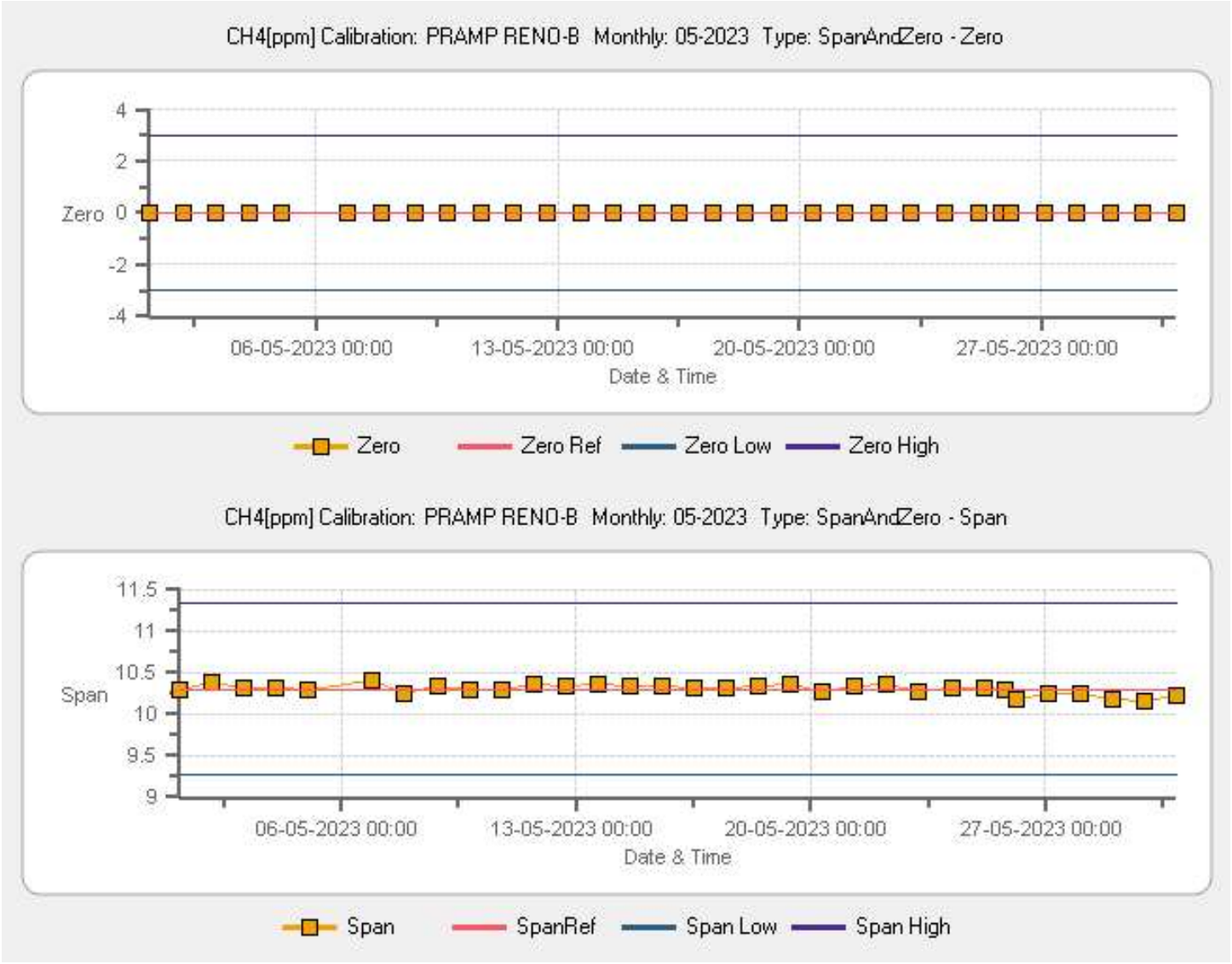
TRS[ppb] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Zero

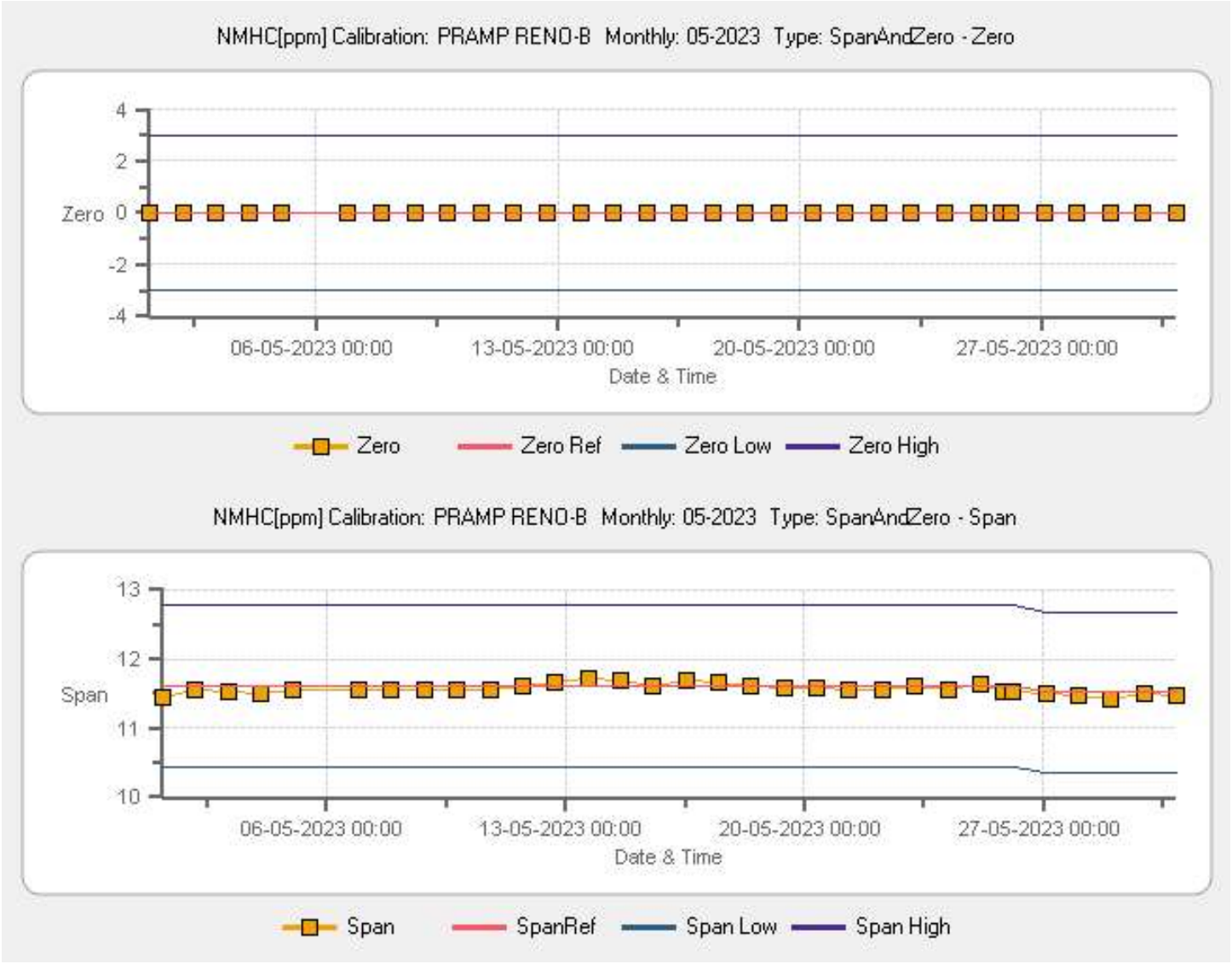


TRS[ppb] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Span




THC55[ppm] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Span
26
24
Span 22
20
18
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Span
11.5
11
10.5
Span 10
9.5
9
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 05-2023 Type: SpanAndZero - Span
13
12
Span
11
10
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	25-May-2023	PREVIOUS CALIBRATION DATE:	20-Apr-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	Reno-B	BAROMETRIC (mBar):	943
PURPOSE	Routine	START TIME (MST):	15:38
PERFORMED BY:	Chris Wesson	END TIME (MST):	19:38

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	437
INITIAL		FINAL	
BKG/OFFSET	1.19	BKG/OFFSET	1.23
COEF/SLOPE	0.898	COEF/SLOPE	0.951
Expected (reference) Value	211.9	Expected (reference) Value	228.5

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	5004
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):	800	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		
4002		4002	0.00	-0.2	0		
3941	60.60	4002	380.07	364.1	381.3	1.043	0.997
3971	28.70	4000	180.09	n/a	181.1	n/a	0.994
3986	14.30	4000	89.73	n/a	90	n/a	0.997

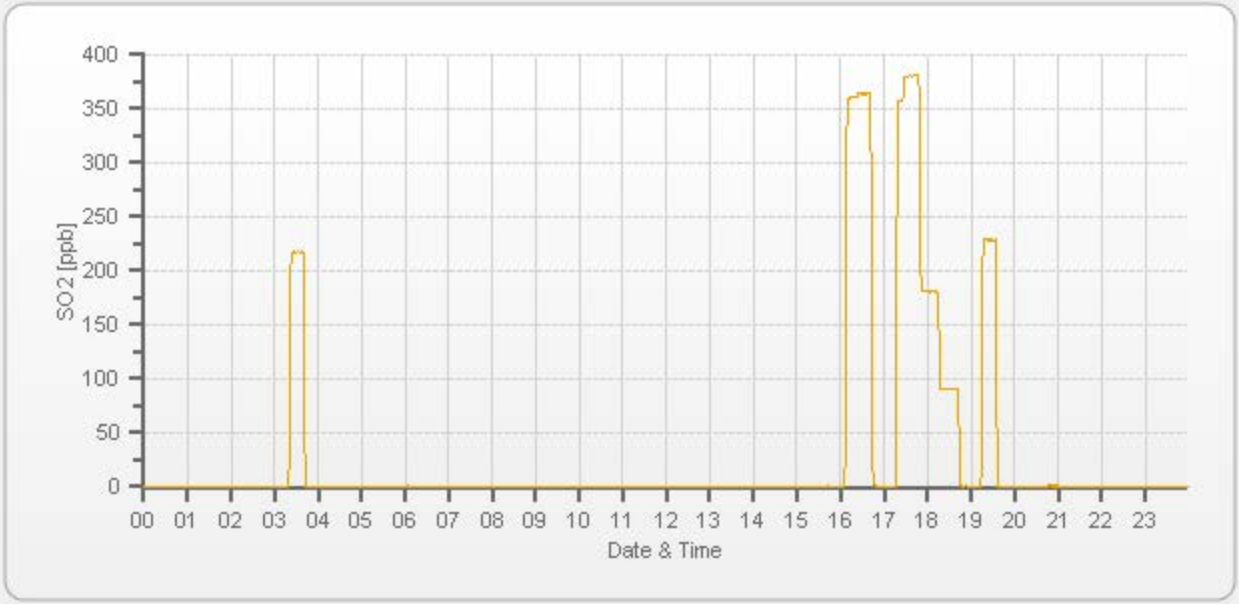
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.003	0.0%

COMMENTS:

sample filter changed

SO2[ppb] Station: PRAMP RENO-B Daily: 25-05-2023 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	25-May-2023	PREVIOUS CALIBRATION DATE:	20-Apr-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	Reno-B	BAROMETRIC (mBar):	943
PURPOSE	Routine	START TIME (MST):	15:38
PERFORMED BY:	Chris Wesson	END TIME (MST):	19:39

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	397
INITIAL		FINAL	
BKG/OFFSET	0.92	BKG/OFFSET	0.85
COEF/SLOPE	0.882	COEF/SLOPE	0.852
Expected (reference) Value	37.22	Expected (reference) Value	36.71

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	5004
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):	600	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		
4002		4002	0.00	-0.03	0		
3969	33.10	4002	77.83	80.21	78.3	0.970	0.994
3984	16.20	4000	38.11	n/a	38.1	n/a	1.000
3992	8.10	4000	19.06	n/a	18.67	n/a	1.021

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.008	-0.2%

COMMENTS:

TRS Converter CDNOVA CDN-101 #590.

TRS[ppb] Station: PRAMP RENO-B Daily: 25-05-2023 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	25-May-2023	PREVIOUS CALIBRATION DATE:	20-Apr-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	Reno-B	BAROMETRIC (mBar):	943
PURPOSE	Routine	START TIME (MST):	15:38
PERFORMED BY:	Chris Wesson	END TIME (MST):	19:39

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1505664392	1084
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.998	0.999	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	5004	CYLINDER (psi):	800		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
	10.30	11.61	21.92		10.30	11.52	21.82

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
3096		3096	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00						
3023	74.40	3097	14.61	13.41	28.02	14.68	13.41	28.09	14.61	13.42	28.02	0.995	1.000	0.997	1.000	0.999	1.000
3060	37.20	3097	7.30	6.71	14.01	n/a	n/a	n/a	7.37	6.74	14.11	n/a	n/a	n/a	0.991	0.995	0.993
3079	18.60	3098	3.65	3.35	7.00	n/a	n/a	n/a	3.71	3.42	7.12	n/a	n/a	n/a	0.984	0.980	0.983

LINEAR REGRESSION ANALYSIS:

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

Comments:

H2 = AMA HG300 #210467069

Deionizer exchanged

Use Zero Chrom? **Yes**

Station: PRAMP RENO-B Daily: 25-05-2023 Type: AVG 1 Min. [1 Min.]

Meteorological System Checklist

Date:	May 25, 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:	April 20, 2023	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	Audit: 17:39-17:43
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:	April 20, 2023
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	FS 160459244 expires June 14, 2023
Reference Temperature (^{o}C):	15.4
Station - Ambient Temperature (^{o}C):	14.5
Temperature Difference (^{o}C):	0.9

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	April 20, 2023	
Reference Barometer ID:	Brunton 05535 expires Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	942.6
Station Pressure - Units/Reading:	millibar	943
Pressure Tolerance +/- 15% of error:	801 - 1084	-0.04%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	April 20, 2023	
Reference Hygrometer ID:	FS 160459244 expires June 14, 2023	
Reference Hygrometer % RH- Reading:	69.30	
Station Hygrometer % RH- Reading:	74.20	
RH Tolerance +/- 15% of difference:	58.91 - 79.70	-7.1%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	April 20, 2023	Previous check date:	April 20, 2023
Wind Speed Observed (kph):	10-~20	Wind Direction Observed:	NE
Wind speed on Data Logger (kph):	12	Wind Direction on Data Logger:	NE
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	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

END OF REPORT

Peace River Area Monitoring Program

MAY 2023

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

CAL-PRAMP-202305-01689

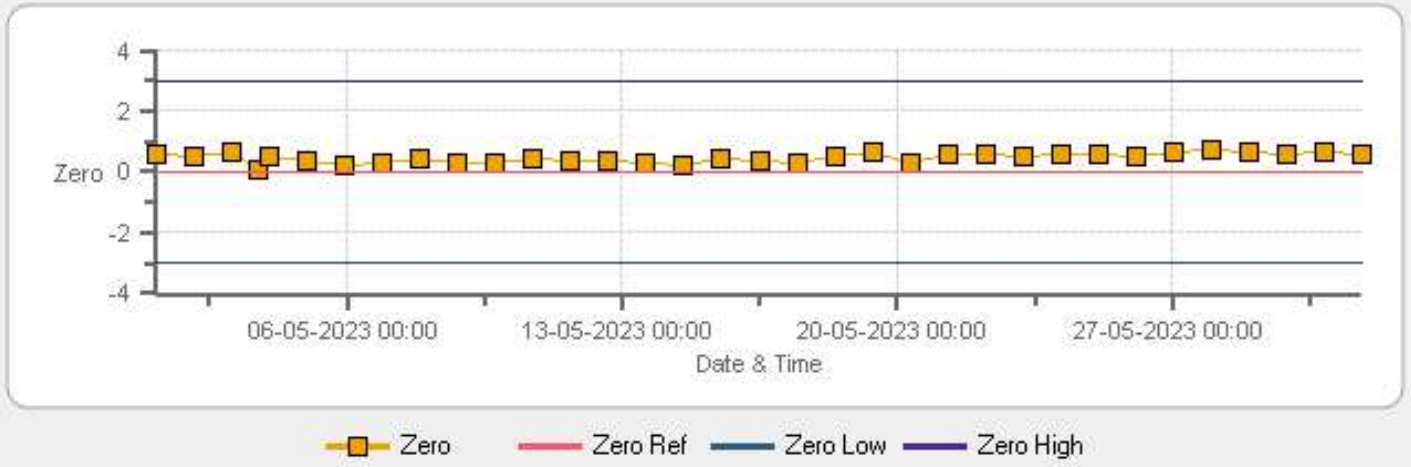
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

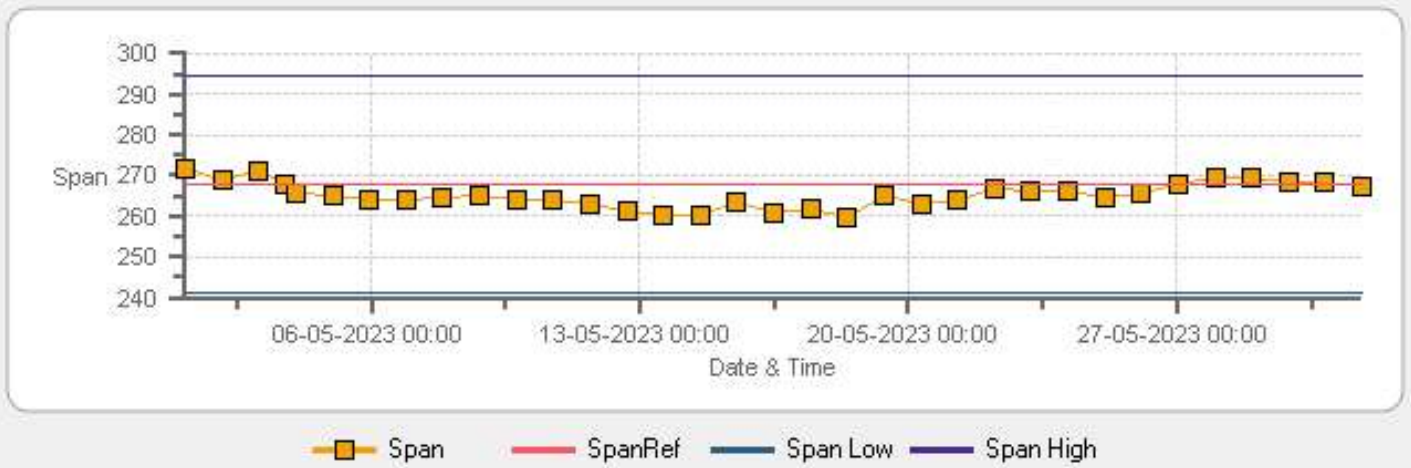
June 12, 2023

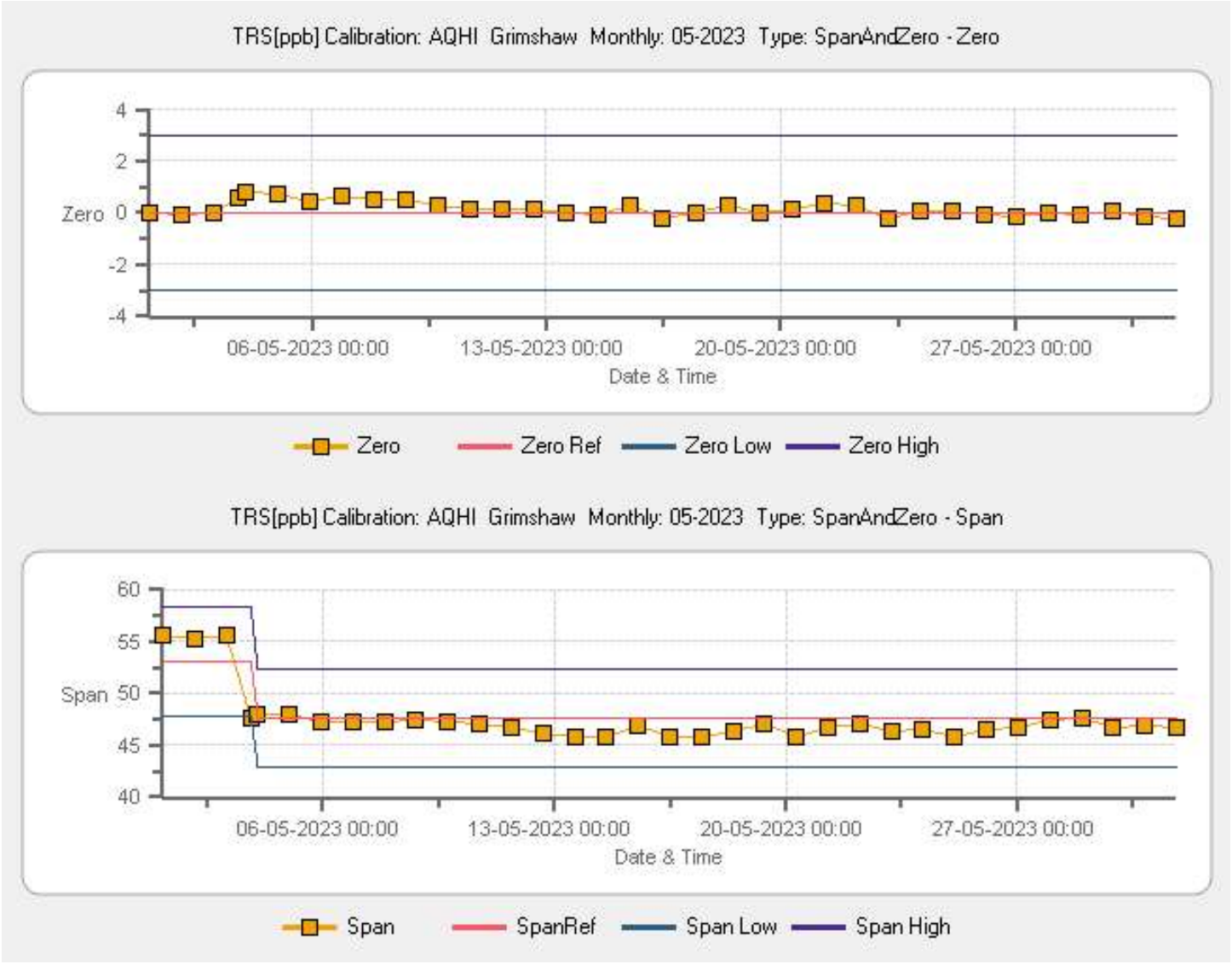
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

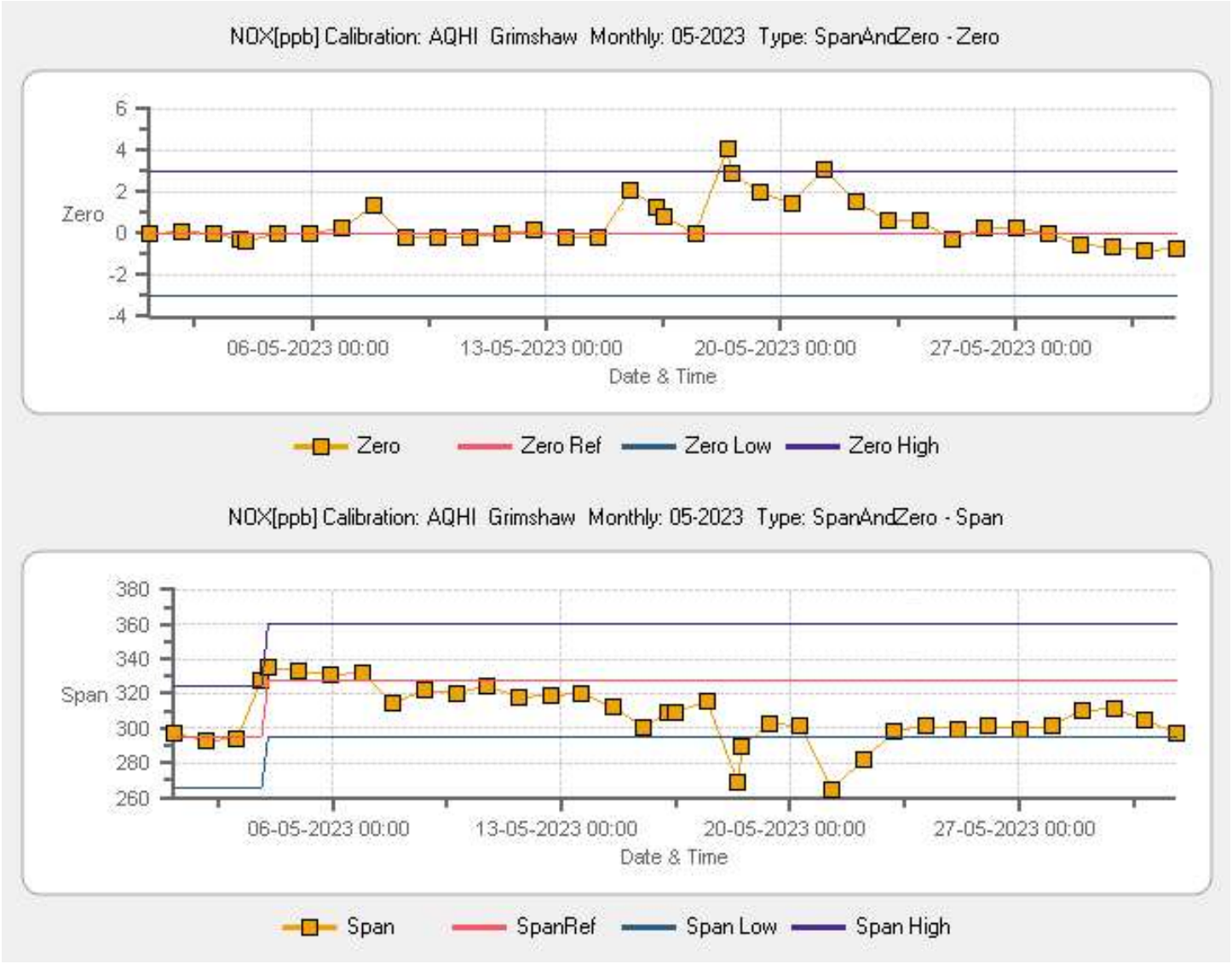
SO2[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Zero



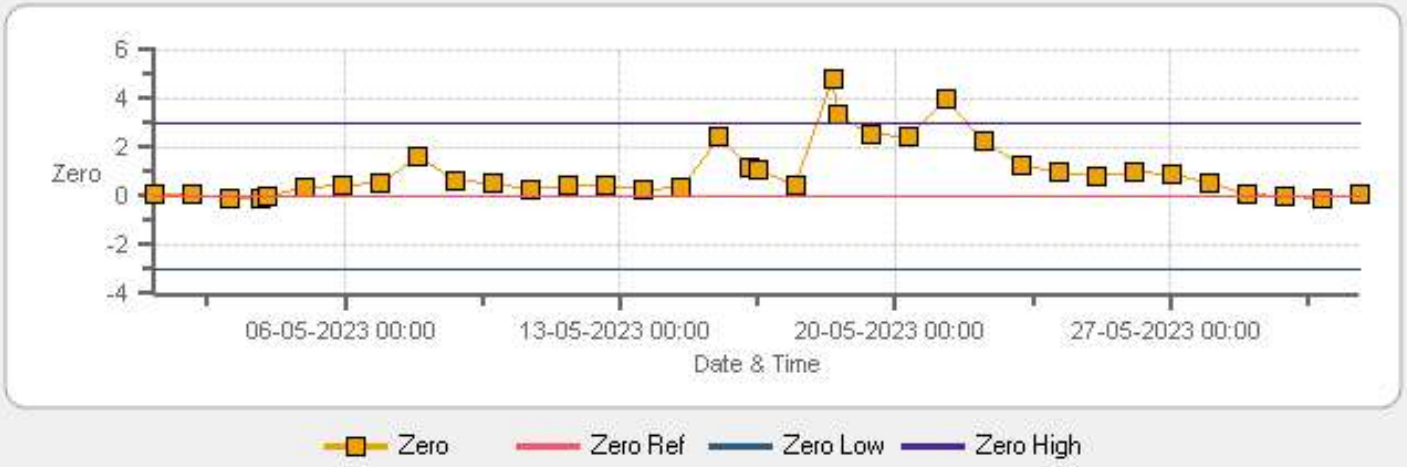
SO2[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Span



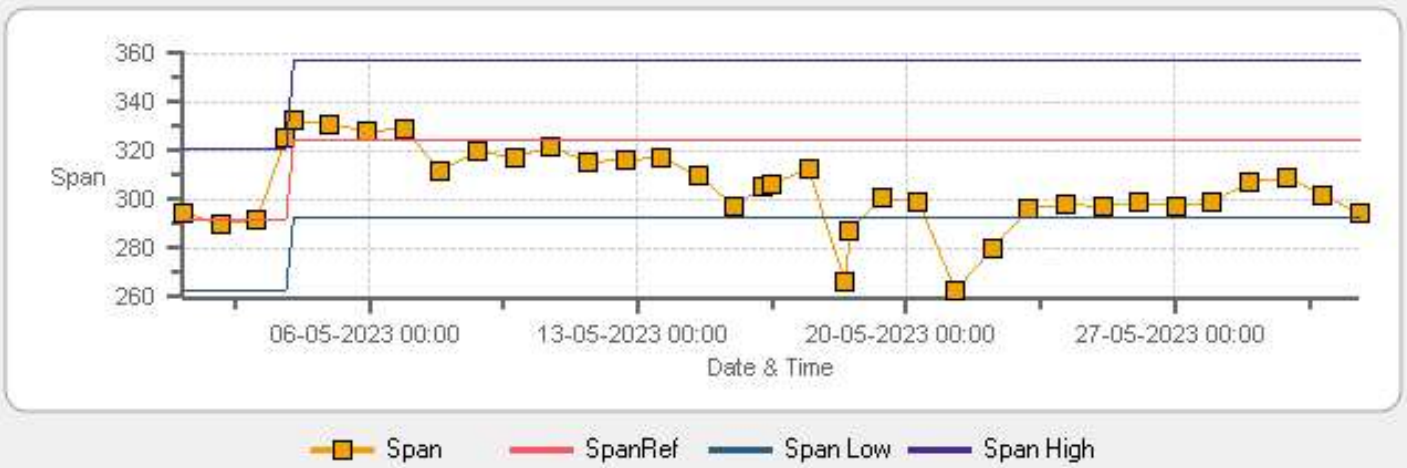

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Span
60
55
Span 50
45
40
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NOX[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Zero
Zero
6
4
2
0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Span
Span
380
360
340
320
300
280
260
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

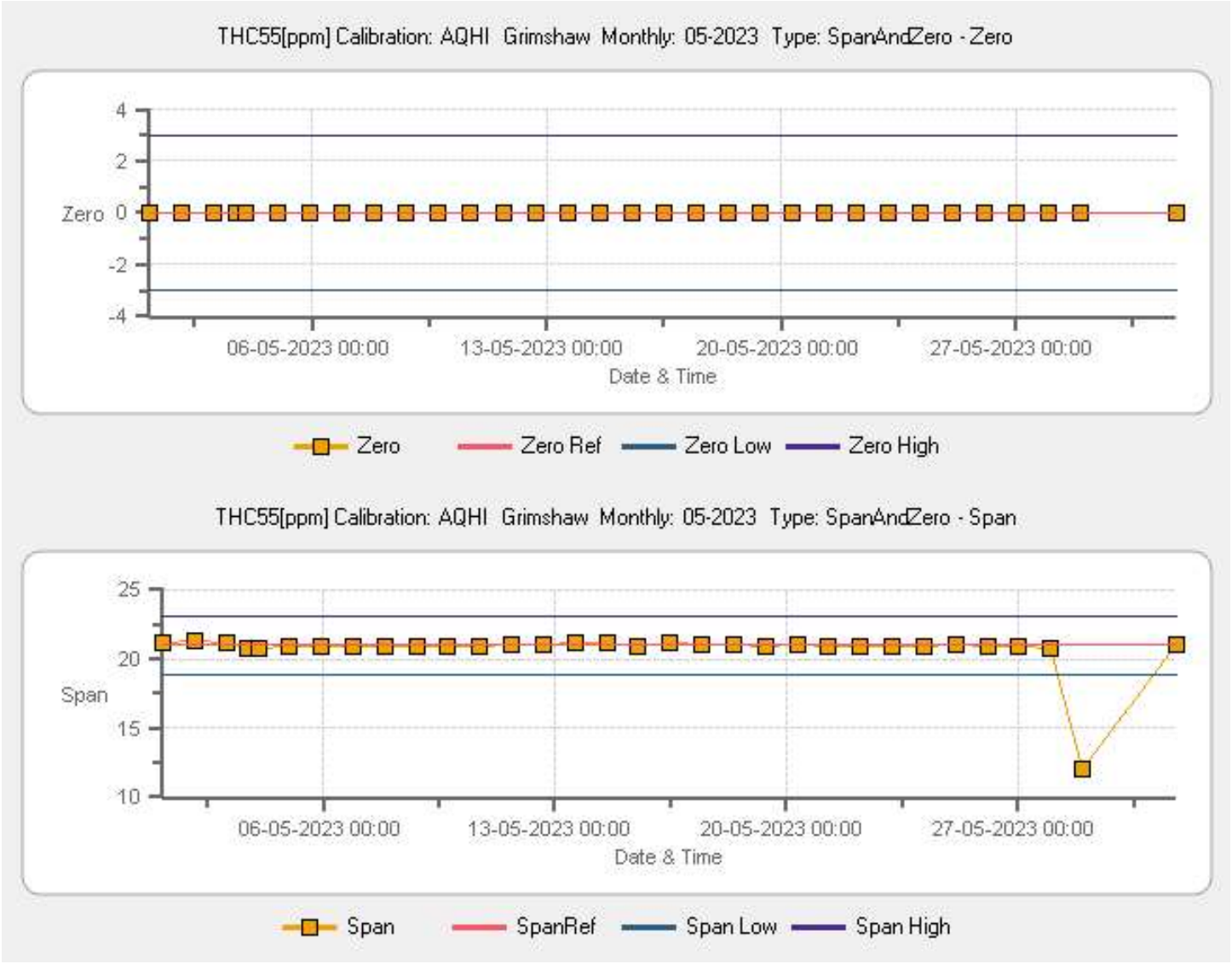
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Zero

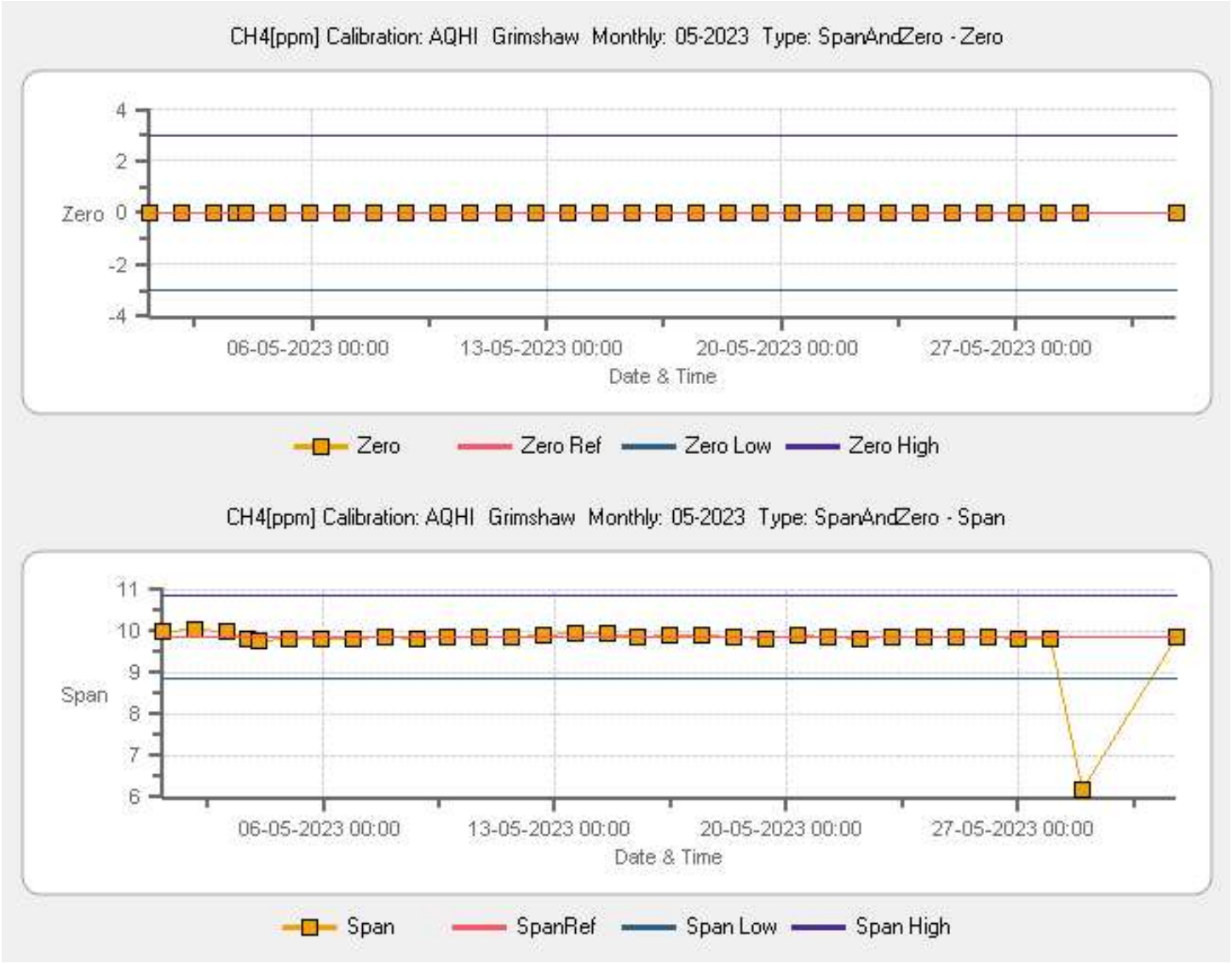


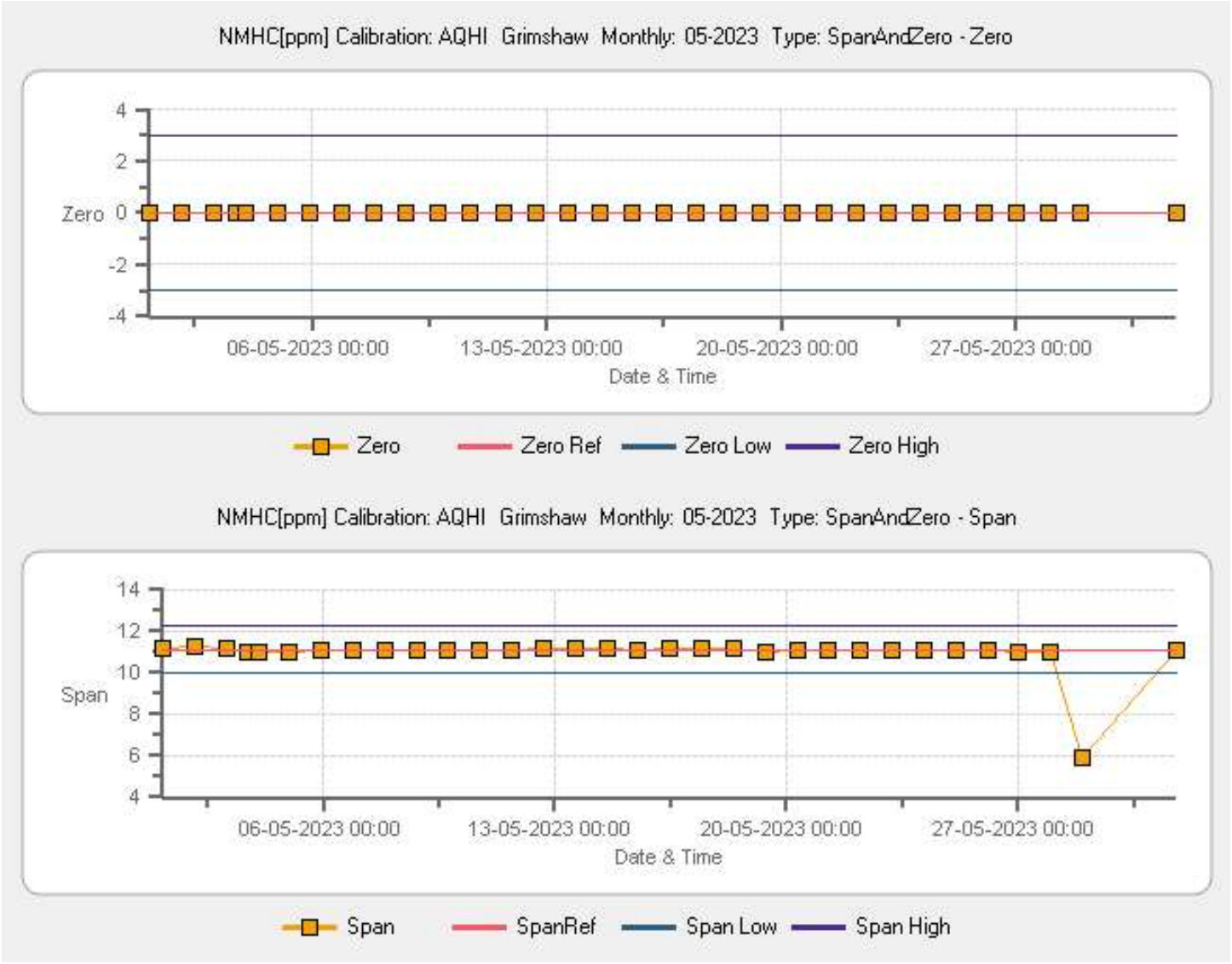
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Span




O3[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
O3[ppb] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Span
280
270
260
Span 250
240
230
220
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Span
25
20
Span
15
10
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Span
11
10
9
Span
8
7
6
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 05-2023 Type: SpanAndZero - Span
14
12
10
Span
8
6
4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	03-May-2023	PREVIOUS CALIBRATION DATE:	05-Apr-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.8
LOCATION:	Grimshaw	BAROMETRIC (mBar):	933
PURPOSE	Routine	START TIME (MST):	12:54
PERFORMED BY:	Limin Li	END TIME (MST):	17:57

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	506
INITIAL		FINAL	
BKG/OFFSET	28.5	BKG/OFFSET	29.1
COEF/SLOPE	0.927	COEF/SLOPE	0.911
Expected (reference) Value	268	Expected (reference) Value	268

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Thermo
MODEL:	2010	MODEL:	111
ID:	17200415	ID:	33575-245
MFC CALIBRATION DATE:	20-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL126764	HIGH ID	n/a
CONC (ppm):	50.30	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	27-Oct-2030	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		
6000		6000	0.00	0.5	0		
5955	44.80	6000	375.57	388.4	375.6	0.968	1.000
5979	21.20	6000	177.73	n/a	176.2	n/a	1.009
5989	10.60	6000	88.86	n/a	87.5	n/a	1.016

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.2%

COMMENTS:

Sample filter changed.

SO2[ppb] Station: AQHI Grimshaw Daily: 03-05-2023 Type: AVG 1 Min. [1 Min.]

TRS Analyzer Calibration by Dilution

DATE:	03-May-2023	PREVIOUS CALIBRATION DATE:	05-Apr-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4
LOCATION:	Grimshaw	BAROMETRIC (mBar):	932
PURPOSE	Removal/Shut-down	START TIME (MST):	13:37
PERFORMED BY:	Limin Li	END TIME (MST):	15:42

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100	ppb
SERIAL #	1152940011	FLOW (mL/min)	466	
INITIAL		FINAL		
BKG/OFFSET	1.96	BKG/OFFSET	n/a	
COEF/SLOPE	0.958	COEF/SLOPE	n/a	
Expected (reference) Value	53.04	Expected (reference) Value	n/a	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	042531101	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	14:00	SO2 Conc (ppb)	385
END TIME:	14:20	Analyzer Response (ppb)	0.0

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	-0.01	n/a		
7443	57.40	7500	78.06	76.47	n/a	1.021	n/a
7472	27.90	7500	37.94	37.18	n/a	1.020	n/a
7486	14.00	7500	19.04	18.33	n/a	1.038	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.981	-0.1%

COMMENTS:

Converter, CDNova CDN-101 #576.
Remove BV analyzer

TRS Analyzer Calibration by Dilution

DATE:	03-May-2023	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	24.9
LOCATION:	Grimshaw	BAROMETRIC (mBar):	931
PURPOSE	Install/Post-Repair	START TIME (MST):	16:58
PERFORMED BY:	Limin Li	END TIME (MST):	19:45

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	535
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	40.9
COEF/SLOPE	n/a	COEF/SLOPE	1.034
Expected (reference) Value	n/a	Expected (reference) Value	47.67

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	042531101	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	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		
7500		7500	0.00	n/a	0.04		
7443	57.40	7500	78.06	n/a	78.12	n/a	1.000
7472	27.90	7500	37.94	n/a	37.68	n/a	1.008
7486	14.00	7500	19.04	n/a	18.81	n/a	1.014

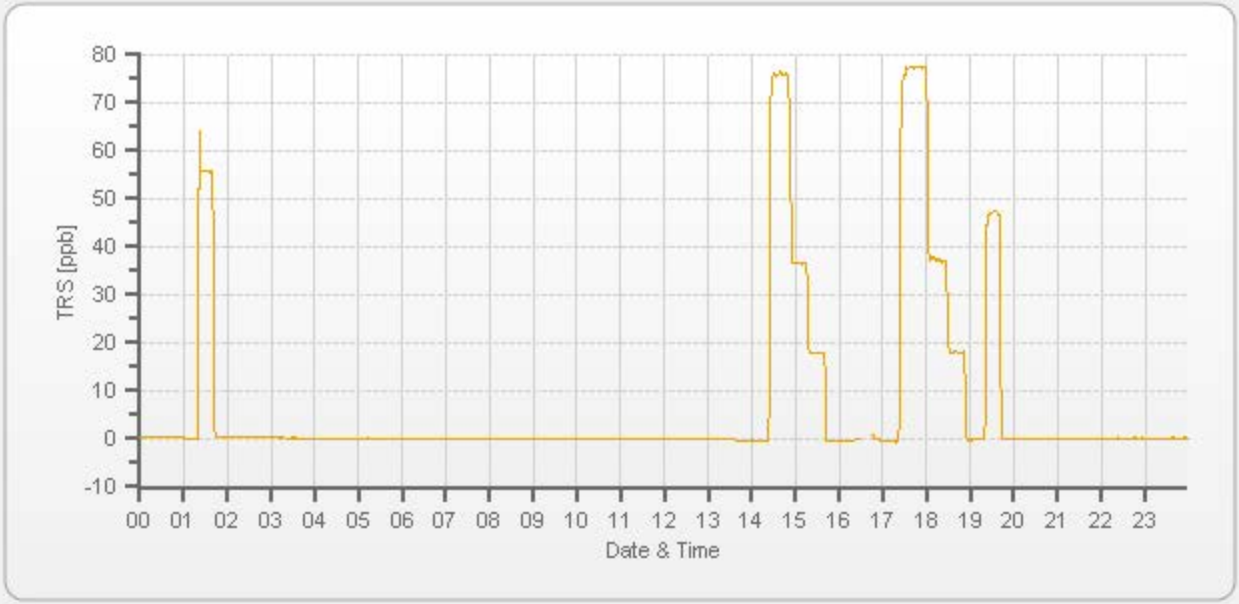
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Converter, CDNova CDN-101 #576.
Install PRAMP analyzer

TRS[ppb] Station: AQHI Grimshaw Daily: 03-05-2023 Type: AVG 1 Min. [1 Min.]



NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:

DATE:	03-May-2023	PREVIOUS CALIBRATION DATE:	05-Apr-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	21.8
LOCATION:	Grimshaw	BAROMETRIC (mBar):	933
PURPOSE	Routine	START TIME (MST):	12:54
PERFORMED BY:	Limin Li	END TIME (MST):	19:57

ANALYZER:

MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
SERIAL #:	837	NOx	0.999
FLOW (mL/min)	438	NO	1.000
RANGE (ppb)	500	NO2	0.996
GPT FOR O3?		No	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Thermo	CYLINDER ID:	LL126764		HIGH ID:	n/a
MODEL:	2010	MODEL:	111	NO/NOx (PPM):	50.9	51.4	HIGH EXPIRY:	n/a
ID:	17200415	ID:	33575-245	CYLINDER (psi):	1800		LOW ID:	n/a
MFC CALIBRATION DATE:	20-Mar-2023	OXIDIZER ID:	n/a	EXPIRY DATE	27-Oct-2030		LOW EXPIRY:	n/a

CALIBRATION SETTINGS:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	0.4	-0.4	n/a	BKG/OFFSET:	0.9	0.2	n/a
SLOPE/COEF/CE:	1.098	1.017	0.998	SLOPE/COEF/CE:	1.243	1.213	0.985

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	294.7	3.2	291.5		327.9	2.9	325.0

CALIBRATION PARAMETERS:

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

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
6000		6000	0.0	0.0	0.0	0.2	0.6	0.4	0.0	0.0	0.0						
5955	44.80	6000	380.1	383.8	3.7	356.4	350.8	-5.6	380.1	383.9	3.9	1.067	1.096		1.000	1.000	
5979	21.20	6000	179.8	181.6	1.8	n/a	n/a	n/a	178.3	180.1	1.8	n/a	n/a		1.009	1.008	
5989	10.60	6000	89.9	90.8	0.9	n/a	n/a	n/a	88.6	88.9	0.4	n/a	n/a		1.015	1.021	

GPT CALIBRATION:

Point	CALIBRATOR			INDICATED (ppb)			NO DROP / O3 Conc (ppb)	NO2 GAIN (ppb)	NO2 Corr. FACTOR	CONV. EFFICIENCY
	GAS	TOTAL	O3 SETPOINT	NO	NOx	NO2				
REFERENCE	37.30	5000	0	381.4	386.7	5.3				
AS-FOUND HIGH	37.30	5000	240	137.2	383.8	246.6	244.2	241.3	1.012	98.81%
ADJUSTED HIGH	37.30	5000	240	137.0	386.5	249.3	244.4	244	1.002	99.84%
MID	37.30	5000	125	252.3	386.2	133.9	129.1	128.6	1.004	99.61%
LOW	37.30	5000	50	327.6	385.6	58.0	53.8	52.7	1.021	97.96%
NO2 adjustment not required.									AVERAGE:	98.79%

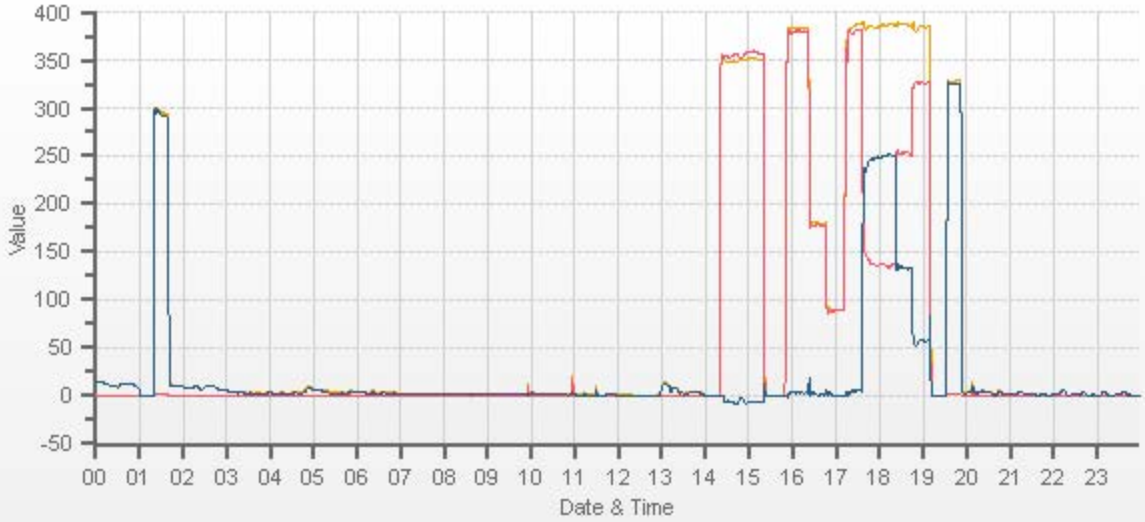
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
NO	1.000	1.001	-0.17%
NOx	1.000	1.002	-0.22%
NO2	1.000	0.990	0.00%

COMMENTS:

Sample filter changed. As found zero take long time with API 701 zero air, Change zero Thermo model 111, then ok.

Station: AQHI Grimshaw Daily: 03-05-2023 Type: AVG 1 Min. [1 Min.]



Ozone Calibration by Direct GPT

DATE:	04-May-2023	PREVIOUS CALIBRATION DATE:	05-Apr-2023
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	25.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	929
PURPOSE	Routine	START TIME (MST):	08:18
PERFORMED BY:	Limin Li	END TIME (MST):	13:01

ANALYZER:

MAKE/MODEL	Teledyne T400	RANGE	500 ppb
SERIAL #	824	FLOW (mL/min)	756
INITIAL		FINAL	
BKG/OFFSET	-1.7	BKG/OFFSET	-1.1
COEF/SLOPE	1.065	COEF/SLOPE	1.103
Expected (reference) Value	251.1	Expected (reference) Value	251.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	20-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION METHOD:		Direct GPT	
GPT DATE:	04-May-2023	GPT END TIME:	8:17

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	0.5	0.0		
5000		5000	371.0	371.1	371.0	1.001	1.000
5000		5000	159.5	n/a	158.1	n/a	1.009
5000		5000	59.8	n/a	58.4	n/a	1.024

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.2%

COMMENTS:

Sample filter changed.
08:55:Swap zero air supply (from Thermo 111) due to low response. Restart AF high.


O3[ppb] Station: AQHI Grimshaw Daily: 04-05-2023 Type: AVG 1 Min. [1 Min.]
400
350
300
250
200
150
100
50
0
-50
O3 [ppb]
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
O3 [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	03-May-2023	PREVIOUS CALIBRATION DATE:	08-Apr-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	Grimshaw	BAROMETRIC (mBar):	932
PURPOSE	Routine	START TIME (MST):	14:02
PERFORMED BY:	Limin Li	END TIME (MST):	17:54

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1191032505	1115
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	1.001	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Environics	MAKE:	API	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	6100	MODEL:	701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	5212	ID:	1105	CYLINDER (psi):	500		LOW ID:	n/a
MFC CALIBRATION DATE:	21-Mar-2023	OXIDIZER ID:	111	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
	9.86	11.12	20.98		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
3500		3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3416	84.00	3500	14.59	13.40	27.99	14.85	13.63	28.48	14.62	13.43	28.05	0.983	0.983	0.983	0.998	0.998	0.998
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.30	6.72	14.02	n/a	n/a	n/a	0.999	0.997	0.998
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.64	3.36	7.00	n/a	n/a	n/a	1.002	0.997	1.000

LINEAR REGRESSION ANALYSIS:

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

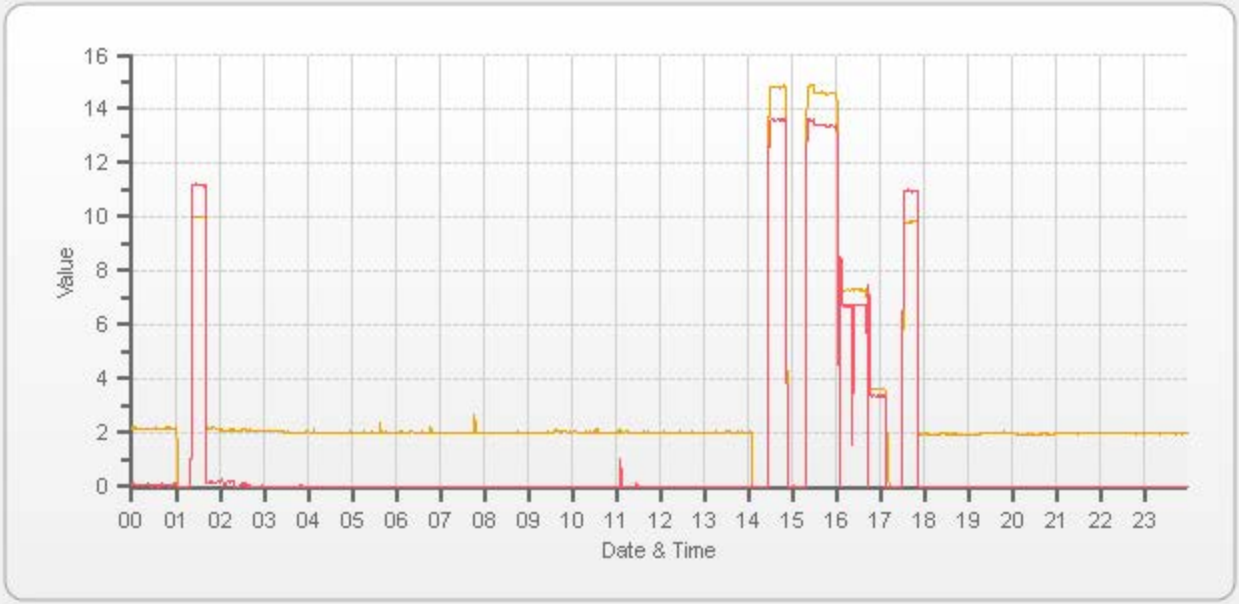
Comments:

H2 = AMA HG300 #190567059

Mid-point extended due to bad injections. Calibration remains valid.

Use Zero Chrom? **No**

Station: AQHI Grimshaw Daily: 03-05-2023 Type: AVG 1 Min. [1 Min.]



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	May 4, 2023	April 5, 2023	**Weather Conditions:**	Mix of sun and clouds	
Company:	PRAMP		**Start Time (mst):**	8:00	
Station:	Grimshaw		**End Time (mst):**	8:45	
Parameter:	PM 2.5		**Performed By/Reviewer:**	Limin Li	Chris Wesson
Instrument Data:					
Make/Model:	Teledyne T640		**Serial Number:**	318	
Owner:	PRAMP		**Alarms (detail in comments):**	No	
Reference Standards/I.D./Expiry Date:					

Flow Standard: DeltaCal DC1 S/N201588 / Nov 21, 2023 **Temperature:** DeltaCal DC1 S/N201588 / Nov 21, 2023

Digital Manometer: DeltaCal DC1 S/N201588 / Nov 21, 2023 **Pressure:** DeltaCal DC1 S/N201588 / Nov 21, 2023

DIAGNOSTICS:

Ambient Pressure (mmHg)	703.4	Ambient Temp (°C)	17.0	ASC Heater Duty (%)	0.0
Box Temp (°C)	26.5	Current PMT HV (V)	1548	LED Temp (°C)	34.83
P3 Value	49	PMT Setting (V)	1554	Pump PWM (%)	35
Sample Flow (L/min)	5.01	Sample RH (%RH)	21.0	Sample Temp (°C)	24.6

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)	705.5	703.4	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	17.0	17.0	n/a		+/- 2°C
Sample Flow (L/min)	4.80	5.01	4.99	4.99	+/-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:	May 4, 2023		
Technician:	Limin Li		
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:	April 5, 2023		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 160459244 expires June 6, 2023		
Reference Temperature (°C):	15.4		
Station - Ambient Temperature (°C):	15.3		
Temperature Difference (°C):	0.1		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	April 5, 2023		
Reference Barometer ID:	Brunton 05535 Expires Feb 27, 2024		
Reference Pressure - Units/Reading:	millibar	937.8	
Station Pressure - Units/Reading:	millibar	937.6	
Pressure Tolerance +/- 15% of error:	797 - 1078	0.02%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	April 5, 2023		
Reference Hygrometer ID:	F.S. 160459244 expires June 6, 2023		
Reference Hygrometer % RH- Reading:	32.50		
Station Hygrometer % RH- Reading:	36.00		
RH Tolerance +/- 15% of difference:	27.63 - 37.38	-10.8%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	April 5, 2023	Previous check date:	April 5, 2023
Wind Speed Observed (kph):	10~15	Wind Direction Observed:	N
Wind speed on Data Logger (kph):	12.2	Wind Direction on Data Logger:	N
		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

END OF REPORT

Peace River Area Monitoring Program

MAY 2023

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

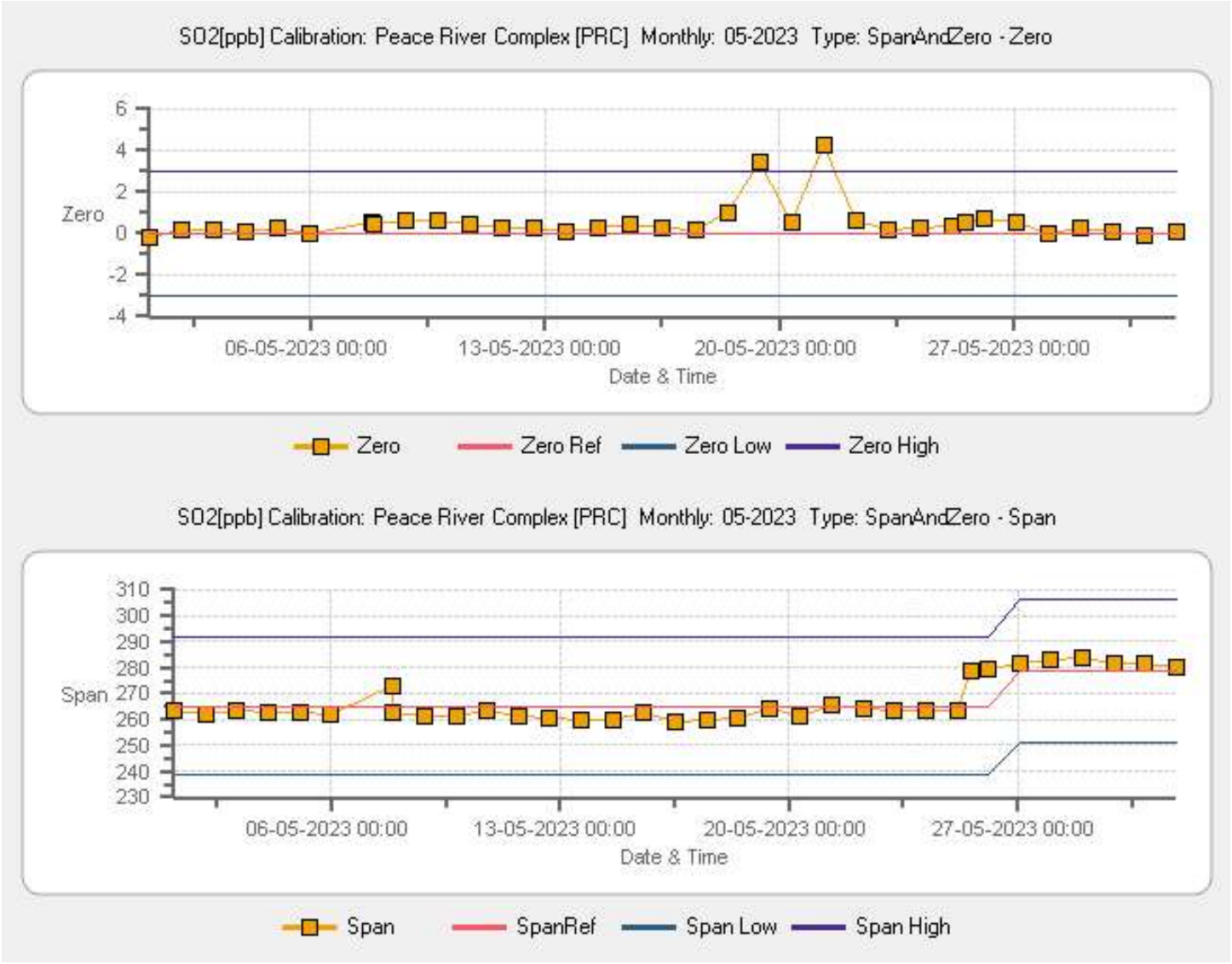
CAL-PRAMP-202305-01698

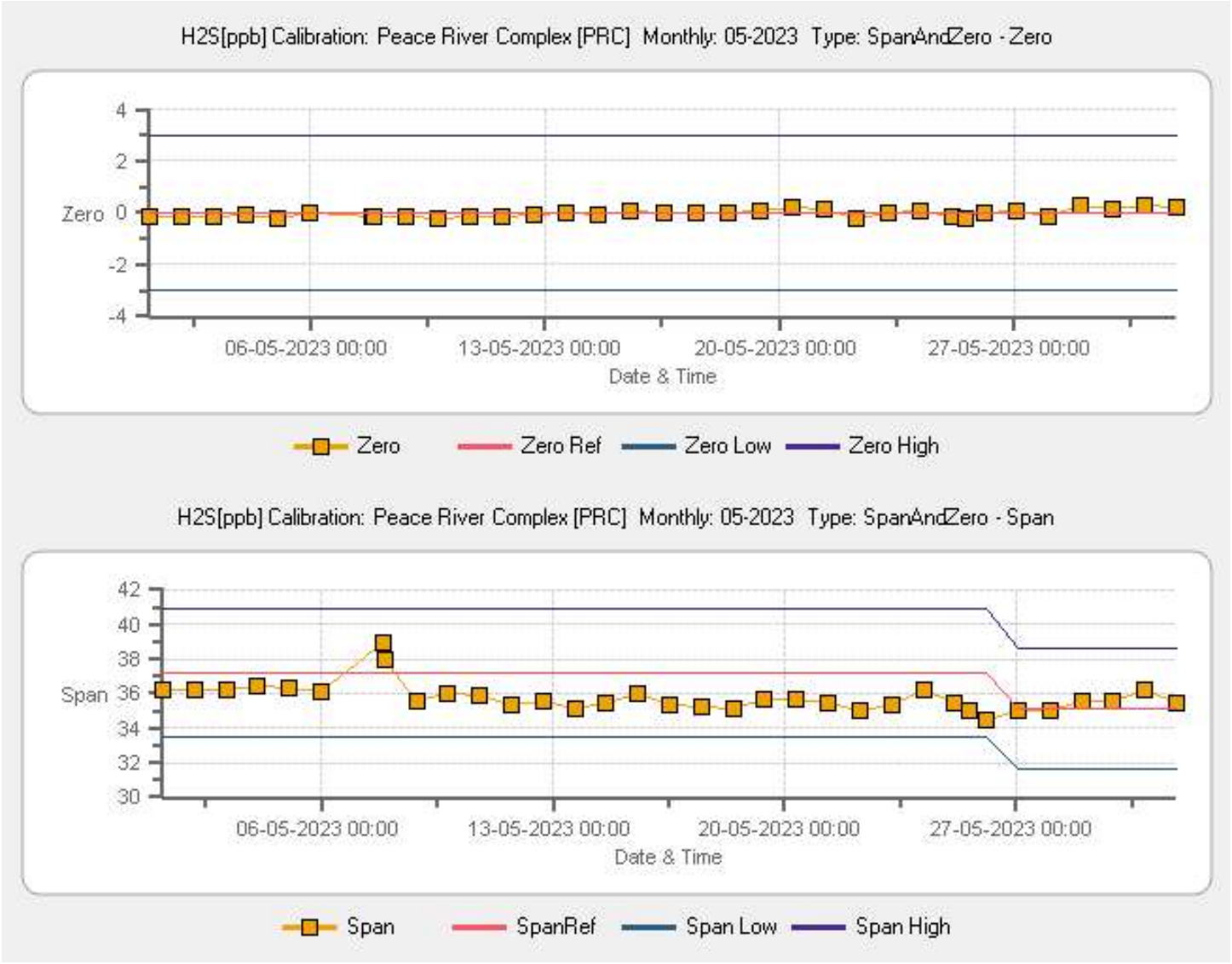
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

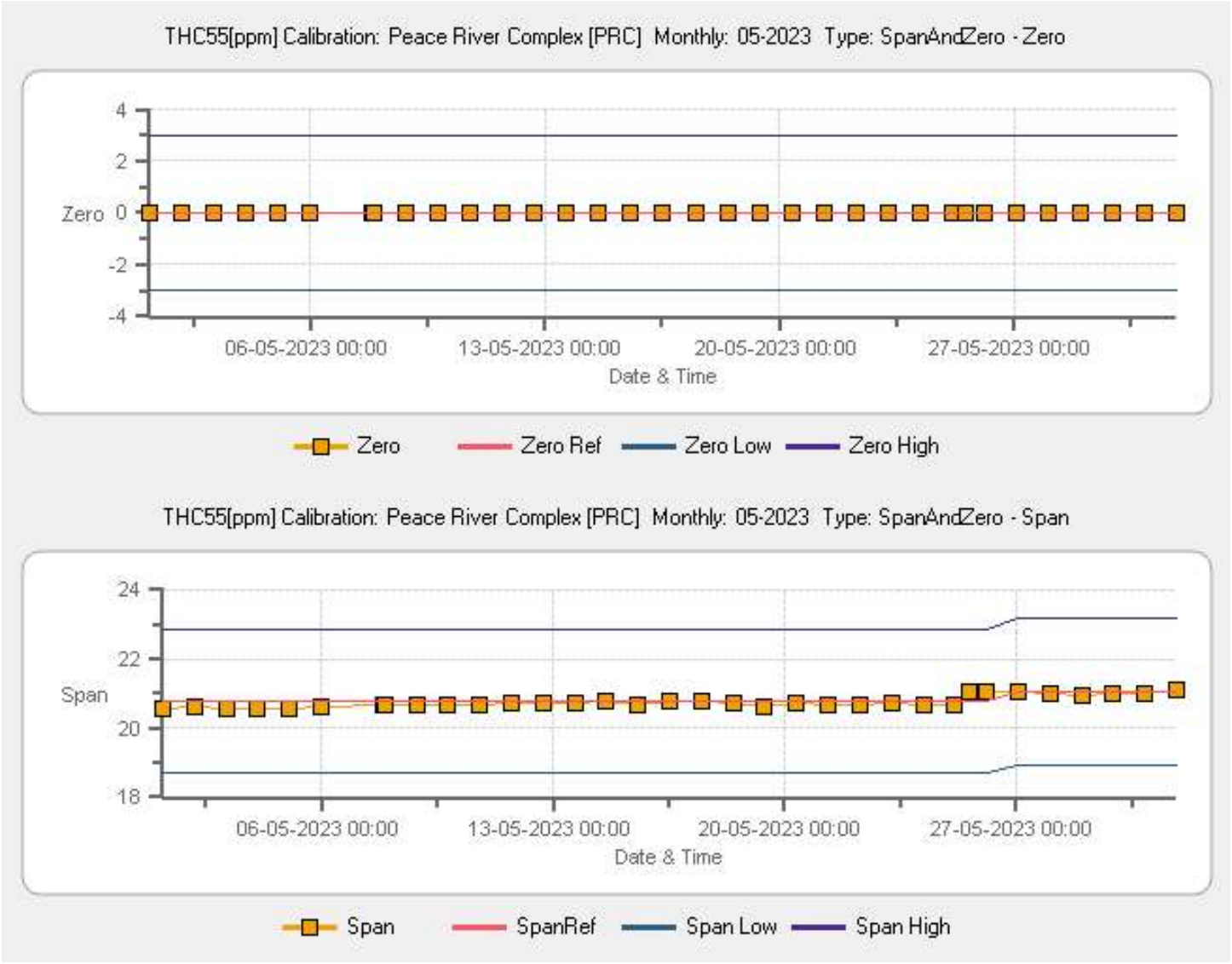
June 12, 2023

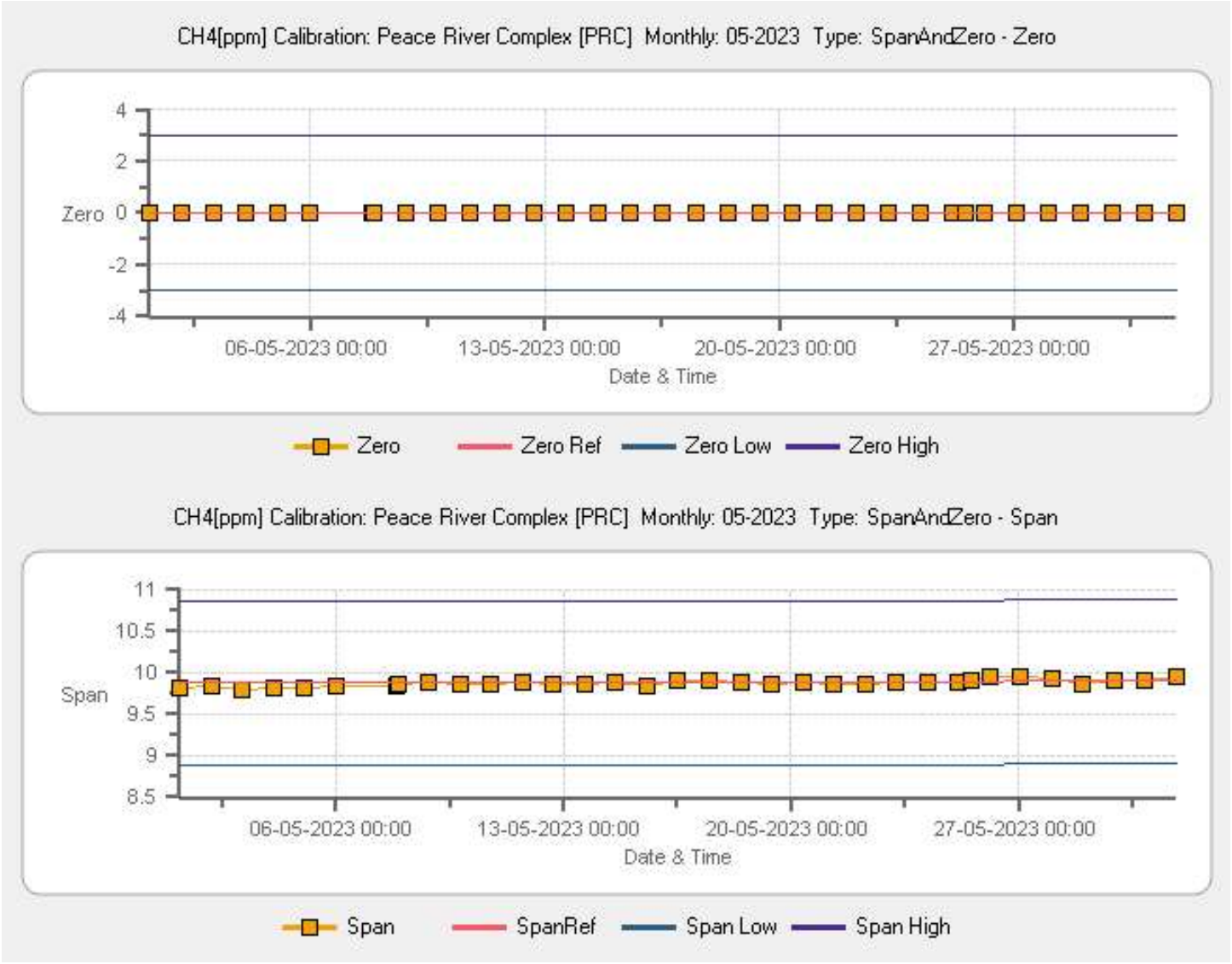
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

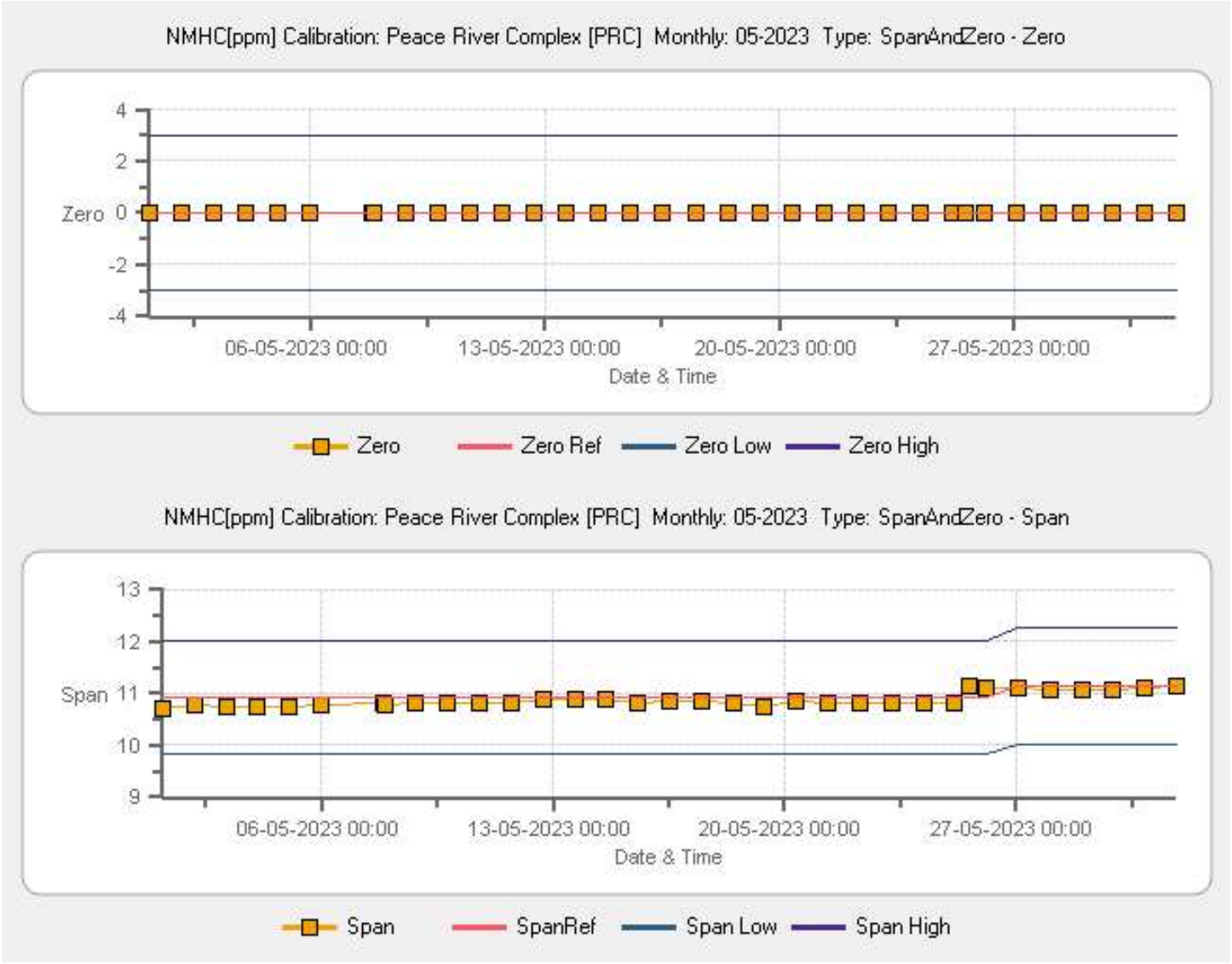

SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Zero
Zero
6
4
2
0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Span
Span
310
300
290
280
270
260
250
240
230
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Span
42
40
38
Span 36
34
32
30
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Span
60
55
Span
50
45
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Span
24
22
Span
20
18
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Span
11
10.5
10
Span
9.5
9
8.5
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 05-2023 Type: SpanAndZero - Span
13
12
Span 11
10
9
06-05-2023 00:00
13-05-2023 00:00
20-05-2023 00:00
27-05-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	25-May-2023	PREVIOUS CALIBRATION DATE:	18-Apr-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	24.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	09:16
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:44

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	441
INITIAL		FINAL	
BKG/OFFSET	19.2	BKG/OFFSET	20.4
COEF/SLOPE	1.109	COEF/SLOPE	1.176
Expected (reference) Value	265	Expected (reference) Value	278.8

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	5004
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):	800	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		
4000		4000	0.00	0	0		
3937	60.60	3998	380.46	364.2	384	1.045	0.991
3969	28.70	3998	180.18	n/a	182	n/a	0.990
3984	14.30	3998	89.78	n/a	91.4	n/a	0.982

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.009	0.1%

COMMENTS:

Sample filter changed.

SO2[ppb] Station: Peace River Complex [PRC] Daily: 25-05-2023 Type: AVG 1 Min. [1 Min.]

H2S Analyzer Calibration by Dilution

DATE:	25-May-2023	PREVIOUS CALIBRATION DATE:	19-Apr-2023
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	0.997
CLIENT:	PRAMP	TEMPERATURE (°C):	24.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	09:16
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:44

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	955
INITIAL		FINAL	
BKG/OFFSET	14.7	BKG/OFFSET	14.3
COEF/SLOPE	1.031	COEF/SLOPE	1.01
Expected (reference) Value	37.2	Expected (reference) Value	35.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	5004
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:

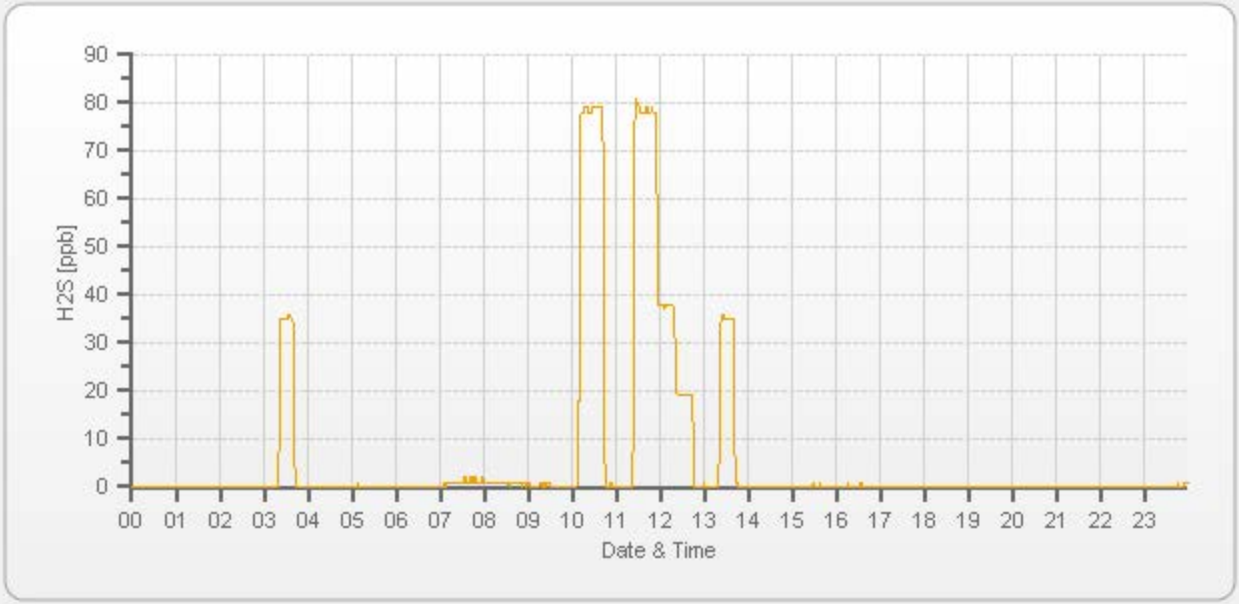
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4000		4000	0.00	0	0		
3965	33.10	3998	77.91	78.7	78	0.990	0.999
3982	16.20	3998	38.13	n/a	37.8	n/a	1.009
3990	8.10	3998	19.06	n/a	18.8	n/a	1.014

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	-0.2%

COMMENTS:

Sample filter changed


H2S[ppb] Station: Peace River Complex [PRC] Daily: 25-05-2023 Type: AVG 1 Min. [1 Min.]
H2S [ppb]
90
80
70
60
50
40
30
20
10
0
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
H2S [ppb]

TRS Analyzer Calibration by Dilution

DATE:	25-May-2023	PREVIOUS CALIBRATION DATE:	19-Apr-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.005
CLIENT:	PRAMP	TEMPERATURE (°C):	24.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	09:15
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:44

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	725
INITIAL		FINAL	
BKG/OFFSET	26.3	BKG/OFFSET	25.3
COEF/SLOPE	1.052	COEF/SLOPE	1.01
Expected (reference) Value	51.7	Expected (reference) Value	50.78

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	5004
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		
4000		4000	0.00	-0.05	0		
3965	33.10	3998	77.91	80.69	77.78	0.965	1.002
3982	16.20	3998	38.13	n/a	37.66	n/a	1.012
3990	8.10	3998	19.06	n/a	18.74	n/a	1.017

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	-0.2%

COMMENTS:

TRS Converter CDNOVA CDN-101 #506.


TRS[ppb] Station: Peace River Complex [PRC] Daily: 25-05-2023 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
90
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:	25-May-2023	PREVIOUS CALIBRATION DATE:	18-Apr-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	24.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	09:16
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:45

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1034745845	1148
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.998	1.002	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	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:	5004	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
	9.88	10.92	20.80		9.90	11.15	21.05

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
3096		3096	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	14.54	13.00	27.56	14.60	13.40	28.00	1.004	1.031	1.016	1.000	1.000	1.000
3062	37.20	3099	7.30	6.70	14.00	n/a	n/a	n/a	7.29	6.69	13.97	n/a	n/a	n/a	1.001	1.002	1.002
3080	18.60	3099	3.65	3.35	7.00	n/a	n/a	n/a	3.64	3.35	6.98	n/a	n/a	n/a	1.003	1.000	1.003

LINEAR REGRESSION ANALYSIS:

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

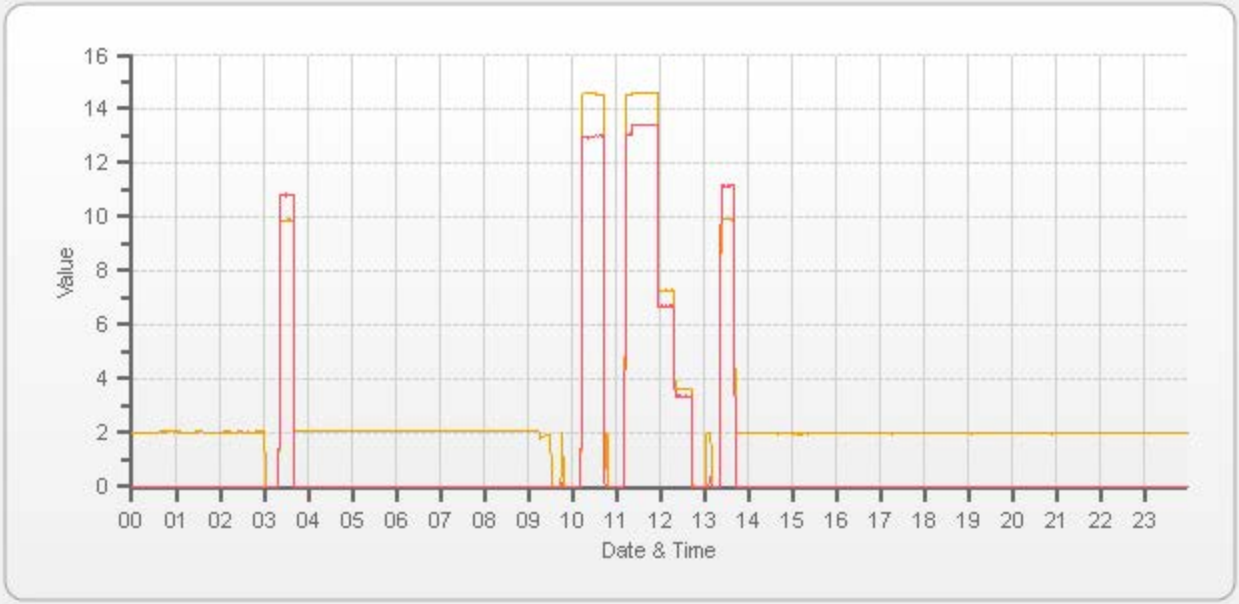
Comments:

H2: AMA HG300 #211067076

H2 maintenance prior to cal (dessicant exchange)

Use Zero Chrom? **No**

Station: Peace River Complex [PRC] Daily: 25-05-2023 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	May 25, 2023		
Technician:	Kevin Sebastian		
Station:	Peace River Compliance		
Unit:	**Make:**	**Model:**	**Serial #:**
Temperature Sensor:	Rotronic	HC2-S3	20558318
Barometric Pressure Sensor:	MetOne	092	B19577
Relative Humidity Sensor:	Rotronic	HC2-S3	20558318
Anemometer:	RM Young	05305VK	129612
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	April 18, 2023		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	FS #160459244 expires June 14, 2023		
Reference Temperature (°C):	20.2		
Station - Ambient Temperature (°C):	19.2		
Temperature Difference (°C):	1.0		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	April 18, 2023		
Reference Barometer ID:	deltaCal DC1 S/N-206578 expires September 20, 2023		
Reference Pressure - Units/Reading:	millibar	943	
Station Pressure - Units/Reading:	millibar	946	
Pressure Tolerance +/- 15% of error:	802 - 1084	-0.32%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	April 18, 2023		
Reference Hygrometer ID:	FS #160459244 expires June 14, 2023		
Reference Hygrometer % RH- Reading:	42.20		
Station Hygrometer % RH- Reading:	44.60		
RH Tolerance +/- 15% of difference:	35.87 - 48.53	-5.7%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	April 18, 2023	Previous check date:	April 18, 2023
Wind Speed Observed (kph):	0~5	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	3.9	Wind Direction on Data Logger:	SW
		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.

END OF REPORT

List of SOPs

MONITOR	SOP
SULPHUR DIOXIDE (SO_2)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
HYDROGEN SULPHIDE (H_2S)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
TOTAL REDUCED SULPHUR (TRS)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
TOTAL HYDROCARBONS (THC), METHANE (CH4), NON-METHANE(NMHC)	Bureau Veritas EMS SOP-00001: Methane, Non-Methane Hydrocarbon Analyzer Monitoring
OXIDES OF NITROGEN (NOx), NITRIC OXIDE (NO) & NITROGEN DIOXIDE (NO_2)	Bureau Veritas EMS SOP-00213: Ambient NO/NO_2/NOx Monitoring
OZONE (O3)	Bureau Veritas EMS SOP-00212: Ambient O3 Monitoring
PARTICULATE MATTER < 2.5 MICRONS ($PM_{2.5}$)	Bureau Veritas EMS SOP-00015: Teledyne API PM Monitor Model T640
WIND SPEED (WS) & WIND DIRECTION (WD)	Bureau Veritas EMS SOP-00013: RM Young Wind Monitor Calibration

Peace River Area Monitoring Program

MAY 2023

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202305-INTEGRATED

June 13, 2023

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June 13, 2023

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

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

Enclosed is the May 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 May 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.
  - The canister sampling program was temporarily paused between May 8 and May 30 due to wildfire smoke. Starting in May, intense wildfire smoke in the region caused NMHC concentrations to spike, resulting in PRAMP's canister systems being automatically activated to collect samples. The objective of the PRAMP canister program is to provide data and information about ambient hydrocarbon concentrations from local industrial sources. Collecting samples triggered by wildfire smoke is not within the intended scope of this component of our regional monitoring program. Therefore, the canister sampling program was temporarily paused pending dissipation of wildfire smoke and an improvement in air quality conditions.
  - One canister event was recorded at the 842-B station at 06:35 on May 8, at concentration of 0.30ppm.

- **Passive Polycyclic Aromatic Compounds (PACs) Sampling Program**
  - The PAC sampling program began in December 2019, and is designed to collect a 2-month integrated sample.
  - The sample media for sampling period of May - June were installed on April 30, and it will be removed in late June.

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

June 13, 2023

INTEGRATED SAMPLING RESULTS SUMMARY

- **NMHC analytical results**

Sample Date/Time	2023-05-08 @06:35							
Canister Sample	Non-methane Hydrocarbon							
Canister ID	28950							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	2.6	Methane	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	270	Vinyl acetate

Sample Date/Time	2023-05-08 @06:35							
Canister Sample	Non-methane Hydrocarbon - BLANK							
Canister ID	32219							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	10.8	Vinyl acetate

- **Passive analytical results**

	H_2S		**SO_2**	
Minimum (ppb)	0.23	#9	0.2	#9
Maximum (ppb)	0.82	#11	1.1	#14
Average (ppb)	0.36	-	0.39	-

ANALYTICAL SAMPLING RESULTS

NMHC Canisters – VOCs

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PEACE RIVER AREA MONITORING PROGRAM

842-B Site - May 2023

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	2023-05-08 @06:35					
Canister Sample	Non-methane Hydrocarbon					
Canister ID	28950					
Method	**NA-025**		**Method**	**NA-024**	**Method**	**AC-058**
Maximum Reading (ppmv)	**2.6**	**Methane**	**Maximum Reading (ppmv)**	**-**	**Maximum Reading (ppmv)**	**270**	**Vinyl acetate**
Parameter	**Result (ppmv)**	**RDL (ppmv)**	**Parameter**	**Result (ppbv)**	**RDL (ppbv)**	**Parameter**	**Result (ppbv)**	**RDL (ppbv)**
1-Butene	< 0.15	0.15	2,5-Dimethylthiophene	< 0.4	0.4	1,1,1-Trichloroethane	< 0.03	0.03
Acetylene	< 0.12	0.12	2-Ethylthiophene	< 0.3	0.3	1,1,2,2-Tetrachloroethane	< 0.03	0.03
cis-2-Butene	< 0.06	0.06	2-Methylthiophene	< 0.3	0.3	1,1,2-Trichloroethane	< 0.03	0.03
Ethane	0.5	0.1	3-Methylthiophene	< 0.4	0.4	1,1-Dichloroethane	< 0.03	0.03
Ethylacetylene	< 0.09	0.09	Butyl mercaptan	< 0.4	0.4	1,1-Dichloroethylene	< 0.03	0.03
Ethylene	< 0.10	0.10	Carbon disulphide	< 0.3	0.3	1,2,3-Trimethylbenzene	0.53	0.07
Isobutane	< 0.1	0.1	Carbonyl sulphide	< 0.4	0.4	1,2,4-Trichlorobenzene	< 0.4	0.4
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.3	0.3	1,2,4-Trimethylbenzene	0.33	0.04
Methane	**2.6**	0.1	Dimethyl sulphide	< 0.3	0.3	1,2-Dibromoethane	< 0.03	0.03
n-Butane	< 0.3	0.3	Ethyl mercaptan	< 0.4	0.4	1,2-Dichlorobenzene	< 0.04	0.04
n-Propane	< 0.10	0.10	Ethyl sulphide	< 0.4	0.4	1,2-Dichloroethane	< 0.04	0.04
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1	0.1	1,2-Dichloropropane	< 0.04	0.04
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.4	0.4	1,3,5-Trimethylbenzene	0.16	0.04
trans-2-Butene	< 0.13	0.13	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene	0.57	0.04
			Methyl mercaptan	< 0.3	0.3	1,3-Dichlorobenzene	< 0.6	0.6
			Pentyl mercaptan	< 0.6	0.6	1,4-Dichlorobenzene	< 0.6	0.6
			Propyl mercaptan	< 0.6	0.6	1,4-Dioxane	< 0.7	0.7
			tert-Butyl mercaptan	< 0.4	0.4	1-Butene/Isobutylene	3.82	0.09
			Thiophene	< 0.3	0.3	1-Hexene/2-Methyl-1-pentene	0.4	0.10
						1-Pentene	< 0.04	0.04
						2,2,4-Trimethylpentane	< 0.03	0.03
						2,2-Dimethylbutane	< 0.03	0.03
						2,3,4-Trimethylpentane	< 0.03	0.03
						2,3-Dimethylbutane	< 0.13	0.13
						2,3-Dimethylpentane	0.06	0.03
						2,4-Dimethylpentane	< 0.04	0.04
						2-Methylheptane	< 0.03	0.03
						2-Methylhexane	0.07	0.04
						2-Methylpentane	< 0.03	0.03
						3-Methylheptane	0.05	0.04
						3-Methylhexane	0.07	0.03
						3-Methylpentane	0.12	0.03
						Acetone	14.6	0.6
						Acrolein	1	0.4
						Benzene	6.87	0.04
						Benzyl chloride	< 0.4	0.4
						Bromodichloromethane	< 0.04	0.04
						Bromoform	0.04	0.03
						Bromomethane	< 0.03	0.03
						Carbon disulfide	< 0.03	0.03
						Carbon tetrachloride	< 0.03	0.03
						Chlorobenzene	< 0.03	0.03
						Chloroethane	< 0.03	0.03
						Chloroform	< 0.03	0.03
						Chloromethane	0.8	0.06
						cis-1,2-Dichloroethene	< 0.03	0.03
						cis-1,3-Dichloropropene	< 0.04	0.04
						cis-2-Butene	0.4	0.04
						cis-2-Pentene	0.2	0.03
						Cyclohexane	0.12	0.06
						Cyclopentane	0.24	0.03
						Dibromochloromethane	< 0.03	0.03
						Ethanol	2.1	0.7
						Ethyl acetate	< 0.4	0.4
						Ethylbenzene	0.43	0.04
						Freon-11	0.16	0.03
						Freon-113	< 0.03	0.03
						Freon-114	< 0.04	0.04

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PEACE RIVER AREA MONITORING PROGRAM

842-B Site - May 2023

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	2023-05-08 @06:35					
Canister Sample	Non-methane Hydrocarbon					
Canister ID	28950					
Method	**NA-025**		**Method**	**NA-024**	**Method**	**AC-058**
Maximum Reading (ppmv)	**2.6**	**Methane**	**Maximum Reading (ppmv)**	**-**	**Maximum Reading (ppmv)**	**270**	**Vinyl acetate**

Parameter	Result (ppmv)	RDL (ppmv)

Parameter	Result (ppbv)	RDL (ppbv)

Parameter	Result (ppbv)	RDL (ppbv)
Freon-12	0.49	0.04
Hexachloro-1,3-butadiene	< 0.4	0.44
Isobutane	3.69	0.04
Isopentane	0.59	0.06
Isoprene	0.4	0.03
Isopropyl alcohol	< 0.4	0.4
Isopropylbenzene	0.08	0.06
m,p-Xylene	0.67	0.06
m-Diethylbenzene	1.29	0.03
m-Ethyltoluene	0.33	0.04
Methyl butyl ketone	< 0.6	0.58
Methyl ethyl ketone	1.5	0.4
Methyl isobutyl ketone	< 0.4	0.4
Methyl methacrylate	< 0.12	0.12
Methyl tert butyl ether	< 0.04	0.04
Methylcyclohexane	0.13	0.03
Methylcyclopentane	0.14	0.07
Methylene chloride	< 0.4	0.4
n-Butane	2.43	0.03
n-Decane	0.23	0.09
n-Dodecane	< 0.4	0.4
n-Heptane	0.36	0.06
n-Hexane	0.53	0.04
n-Nonane	0.25	0.06
n-Octane	0.33	0.03
n-Pentane	1.04	0.1
n-Propylbenzene	0.2	0.09
n-Undecane	< 0.7	0.7
Naphthalene	< 0.4	0.4
o-Ethyltoluene	0.26	0.03
o-Xylene	0.36	0.04
p-Diethylbenzene	0.18	0.03
p-Ethyltoluene	< 0.06	0.06
Styrene	0.38	0.06
Tetrachloroethylene	< 0.03	0.03
Tetrahydrofuran	< 0.4	0.4
Toluene	3.29	0.04
trans-1,2-Dichloroethylene	0.57	0.09
trans-1,3-Dichloropropylene	< 0.03	0.03
trans-2-Butene	0.49	0.04
trans-2-Pentene	0.15	0.03
Trichloroethylene	< 0.03	0.03
Vinyl acetate	270	4.4
Vinyl chloride	< 0.03	0.03

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PEACE RIVER AREA MONITORING PROGRAM

842-B Site - May 2023

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	**2023-05-08 @06:35**					
Canister Sample	**Non-methane Hydrocarbon - BLANK**					
Canister ID	**32219**					
Method	**NA-025**		**Method**	**NA-024**	**Method**	**AC-058**
Maximum Reading (ppmv)	-	-	**Maximum Reading (ppmv)**	- -	**Maximum Reading (ppmv)**	**10.8 Vinyl acetate**
Parameter	**Result (ppmv)**	**RDL (ppmv)**	**Parameter**	**Result (ppbv)** **RDL (ppbv)**	**Parameter**	**Result (ppbv)** **RDL (ppbv)**
1-Butene	< 0.1	0.1	2,5-Dimethylthiophene	< 0.3 0.3	1,1,1-Trichloroethane	< 0.02 0.02
Acetylene	< 0.08	0.08	2-Ethylthiophene	< 0.2 0.2	1,1,2,2-Tetrachloroethane	< 0.02 0.02
cis-2-Butene	< 0.04	0.04	2-Methylthiophene	< 0.2 0.2	1,1,2-Trichloroethane	< 0.02 0.02
Ethane	< 0.1	0.1	3-Methylthiophene	< 0.3 0.3	1,1-Dichloroethane	< 0.02 0.02
Ethylacetylene	< 0.06	0.06	Butyl mercaptan	< 0.3 0.3	1,1-Dichloroethylene	< 0.02 0.02
Ethylene	< 0.07	0.07	Carbon disulphide	< 0.2 0.2	1,2,3-Trimethylbenzene	0.13 0.05
Isobutane	< 0.1	0.1	Carbonyl sulphide	< 0.3 0.3	1,2,4-Trichlorobenzene	< 0.3 0.3
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.2 0.2	1,2,4-Trimethylbenzene	0.1 0.03
Methane	< 0.1	0.1	Dimethyl sulphide	< 0.2 0.2	1,2-Dibromoethane	< 0.02 0.02
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.3 0.3	1,2-Dichlorobenzene	< 0.03 0.03
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.3 0.3	1,2-Dichloroethane	< 0.03 0.03
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1 0.1	1,2-Dichloropropane	< 0.03 0.03
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.3 0.3	1,3,5-Trimethylbenzene	0.07 0.03
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.1 0.1	1,3-Butadiene	< 0.03 0.03
			Methyl mercaptan	< 0.2 0.2	1,3-Dichlorobenzene	< 0.4 0.4
			Pentyl mercaptan	< 0.4 0.4	1,4-Dichlorobenzene	< 0.4 0.4
			Propyl mercaptan	< 0.4 0.4	1,4-Dioxane	< 0.5 0.5
			tert-Butyl mercaptan	< 0.3 0.3	1-Butene/Isobutylene	0.51 0.06
			Thiophene	< 0.2 0.2	1-Hexene/2-Methyl-1-pentene	< 0.07 0.07
					1-Pentene	< 0.03 0.03
					2,2,4-Trimethylpentane	< 0.02 0.02
					2,2-Dimethylbutane	< 0.02 0.02
					2,3,4-Trimethylpentane	< 0.02 0.02
					2,3-Dimethylbutane	< 0.09 0.09
					2,3-Dimethylpentane	< 0.02 0.02
					2,4-Dimethylpentane	< 0.03 0.03
					2-Methylheptane	< 0.02 0.02
					2-Methylhexane	0.04 0.03
					2-Methylpentane	< 0.02 0.02
					3-Methylheptane	< 0.03 0.03
					3-Methylhexane	0.04 0.02
					3-Methylpentane	0.03 0.02
					Acetone	1.7 0.4
					Acrolein	< 0.3 0.3
					Benzene	0.05 0.03
					Benzyl chloride	< 0.3 0.3
					Bromodichloromethane	< 0.03 0.03
					Bromoform	0.03 0.02
					Bromomethane	< 0.02 0.02
					Carbon disulfide	< 0.02 0.02
					Carbon tetrachloride	< 0.02 0.02
					Chlorobenzene	< 0.02 0.02
					Chloroethane	< 0.02 0.02
					Chloroform	< 0.02 0.02
					Chloromethane	0.18 0.04
					cis-1,2-Dichloroethene	< 0.02 0.02
					cis-1,3-Dichloropropene	< 0.03 0.03
					cis-2-Butene	< 0.03 0.03
					cis-2-Pentene	< 0.02 0.02
					Cyclohexane	0.06 0.04
					Cyclopentane	0.05 0.02
					Dibromochloromethane	< 0.02 0.02
					Ethanol	1.1 0.5
					Ethyl acetate	< 0.3 0.3
					Ethylbenzene	0.08 0.03
					Freon-11	0.04 0.02
					Freon-113	< 0.02 0.02
					Freon-114	< 0.03 0.03

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PEACE RIVER AREA MONITORING PROGRAM

842-B Site - May 2023

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	2023-05-08 @06:35
Canister Sample	Non-methane Hydrocarbon - BLANK
Canister ID	32219

Method	NA-025	Method	NA-024	Method	AC-058
Maximum Reading (ppmv)	- -	Maximum Reading (ppmv)	- -	Maximum Reading (ppmv)	10.8 Vinyl acetate

Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	Result (ppbv)	RDL (ppbv)
						Freon-12	0.07	0.03
						Hexachloro-1,3-butadiene	< 0.3	0.30
						Isobutane	0.43	0.03
						Isopentane	0.09	0.04
						Isoprene	< 0.02	0.02
						Isopropyl alcohol	0.5	0.3
						Isopropylbenzene	< 0.04	0.04
						m,p-Xylene	0.07	0.04
						m-Diethylbenzene	0.13	0.02
						m-Ethyltoluene	0.07	0.03
						Methyl butyl ketone	< 0.4	0.40
						Methyl ethyl ketone	< 0.3	0.3
						Methyl isobutyl ketone	< 0.3	0.3
						Methyl methacrylate	< 0.08	0.08
						Methyl tert butyl ether	< 0.03	0.03
						Methylcyclohexane	0.03	0.02
						Methylcyclopentane	< 0.05	0.05
						Methylene chloride	< 0.3	0.3
						n-Butane	0.16	0.02
						n-Decane	< 0.06	0.06
						n-Dodecane	< 0.3	0.3
						n-Heptane	0.07	0.04
						n-Hexane	0.04	0.03
						n-Nonane	0.05	0.04
						n-Octane	0.08	0.02
						n-Pentane	0.09	0.0
						n-Propylbenzene	< 0.06	0.06
						n-Undecane	< 0.5	0.5
						Naphthalene	< 0.3	0.3
						o-Ethyltoluene	0.07	0.02
						o-Xylene	0.06	0.03
						p-Diethylbenzene	0.06	0.02
						p-Ethyltoluene	< 0.04	0.04
						Styrene	0.09	0.04
						Tetrachloroethylene	0.02	0.02
						Tetrahydrofuran	< 0.3	0.3
						Toluene	0.07	0.03
						trans-1,2-Dichloroethylene	2.33	0.06
						trans-1,3-Dichloropropylene	< 0.02	0.02
						trans-2-Butene	< 0.03	0.03
						trans-2-Pentene	< 0.02	0.02
						Trichloroethylene	< 0.02	0.02
						Vinyl acetate	**10.8**	0.3
						Vinyl chloride	< 0.02	0.02

Passives

peace river area monitoring program pramp

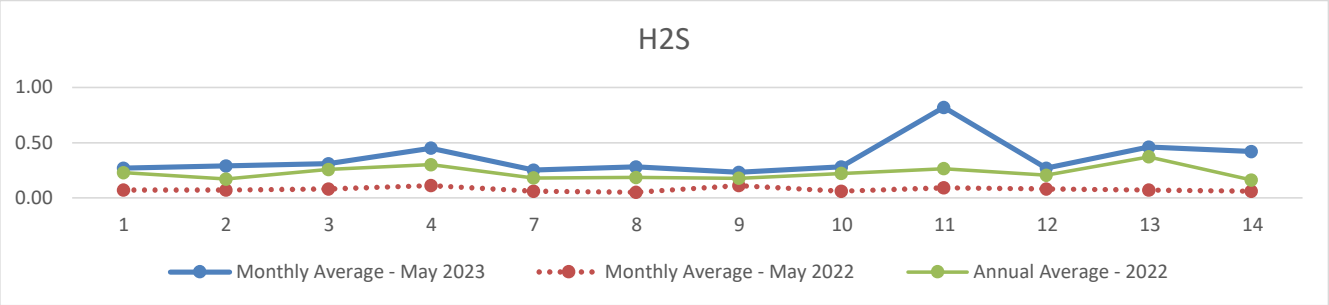
PEACE RIVER AREA MONITORING PROGRAM

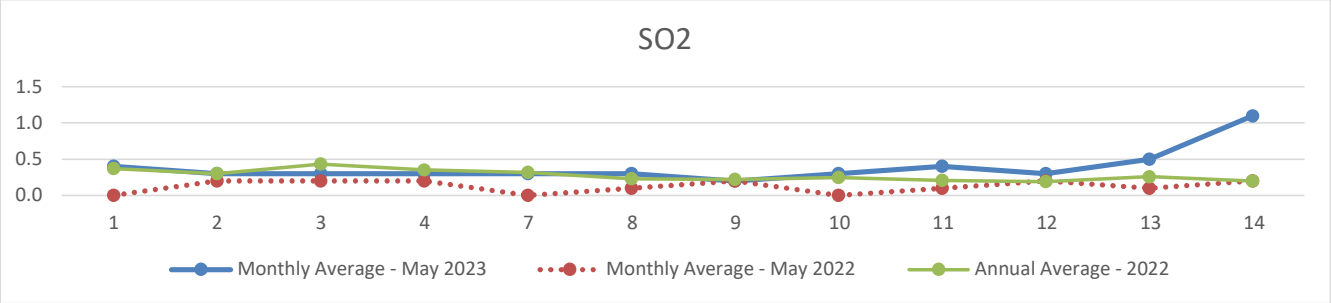
PRC Site - May 2023

Passive Results

	H_2S		SO_2	
Minimum (ppb)	0.23	#9	0.2	#9
Maximum (ppb)	0.82	#11	1.1	#14
Average (ppb)	0.36	-	0.39	-

No.	Calculated Value	Calculated Value
1	0.27	0.4
2	0.29	0.3
3	0.31	0.3
4	0.45	0.3
7	0.25	0.3
8	0.28	0.3
9	0.23	0.2
10	0.28	0.3
11	0.82	0.4
12	0.27	0.3
13	0.46	0.5
14	0.42	1.1
Reportable Detection Limit (RDL)	**0.02**	**0.1**





End of Report

Peace River Area Monitoring Program

MAY 2023

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202305

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

June 12, 2023

Table of Contents

NMHC Canister Analytical Results

InnoTech ALBERTA

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

EAS CANISTER

Sample ID: 23050211-001 **Priority:** Normal

Customer ID: PRAMP
Cust Samp ID: PRAMP-Reno-B-20230508

Date Received- Lab Use Only

RECEIVED
MAY 15 2023

Client Contact Details:

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

RUSH (Surcharge) ☐

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

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

Sample ID (PRAMP_station_yyyymmdd) (Find Sample ID from BV's email)	**Canister ID** (Find canister ID from canister tag)	**Sample Description**	**Date/Time Canister Triggered** (Find Date/Time from BV's email)		**Analysis Requested**
			Date (yyyy/mm/dd)	**Time (24 Hr) (MST)**	
PRAMP_842b- 20230508	28950	□ Methane Trigger	2023/05/08	06:40 am	* C1C4 Air, VOC Full, RSC Air
PRAMP_986c-		☒ NMHC Trigger			* Unknowns to be reported
PRAMP_Reno-		□ Methane Blank			* Carbon Isotopic Analysis (if sample is collected from Methane trigger)
		□ NMHC Blank			
		□ Expired Canister – No further analysis is required.			

Sample Collection:

Collected By LIAM LE **(Name) of** Bureau Veritas **(Company) on** May 08/2023, 10:46am **(Date/Time) (MST).**

InnoTech ALBERTA

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

EAS CANISTER CHAIN OF CUSTODY FORM

Sample ID: 23050211-002 **Priority:** Normal

Customer ID: PRAMP
Cust Samp ID: PRAMP-Reno-B-Blank

Date Received- Lab Use Only

RECEIVED
MAY 15 2023

Client Contact Details:

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

RUSH (Surcharge) ☐

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

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

Sample ID (PRAMP_station_yyyymmdd) (Find Sample ID from BV's email)	Canister ID (Find canister ID from canister tag)	Sample Description	Date/Time Canister Triggered (Find Date/Time from BV's email)		Analysis Requested
			Date (yyyy/mm/dd)	Time (24 Hr) (MST)	
PRAMP_842b- Blank PRAMP_986c- PRAMP_Reno-	32219	□ Methane Trigger □ NMHC Trigger □ Methane Blank ☒ NMHC Blank □ Expired Canister – No further analysis is required.			* C1C4 Air, VOC Full, RSC Air * Unknowns to be reported * Carbon Isotopic Analysis (if sample is collected from Methane trigger)

Sample Collection:

Collected By LIMIN LI **(Name) of** Bureau Veritas **(Company) on** May 08, 2023 **(Date/Time) (MST).**

InnoTech ALBERTA

Canister ID: 28950

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: ISQ4 on: JAN 18 2023

Evacuated: FEB 27 2023 Recertified: _____

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

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP_8426_20230508(NMHC)

Sampled By: LJMEN LL

Starting Vacuum:	End Vacuum:
-27.1 "Hg	0 -3 KG "Hg/psig

InnoTech ALBERTA

Canister ID: 32219

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: ISQ4 on: JAN 18 2023

Evacuated: FEB 08 2023 Recertified: _____

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

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP_8426_~~20230508~~blank

Sampled By: _____

Starting Vacuum:	End Vacuum:
-27.1 "Hg	_____ "Hg/psig

Sample ID: 23050211-001 **Priority:** Normal

Customer ID: PRAMP

Cust Samp ID: PRAMP-Reno-B-20230508

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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

INVOICE: Office Manager

CLIENT SAMPLE ID
PRAMP-842b-230508

Matrix
Ambient Air

CANISTER ID: 28950
PRIORITY: Normal
DESCRIPTION: NMHC Trigger

DATE SAMPLED: 08-May-23 6:40
DATE RECEIVED: 15-May-23
REPORT CREATED: 12-Jun-23
REPORT NUMBER: 23050211
VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-001	1-Butene	K, T, U	< 0.15	ppmv	0.15	NA-025	15-May-23
23050211-001	Acetylene	K, T, U	< 0.12	ppmv	0.12	NA-025	15-May-23
23050211-001	n-Butane	K, T, U	< 0.3	ppmv	0.3	NA-025	15-May-23
23050211-001	cis-2-Butene	K, T, U	< 0.06	ppmv	0.06	NA-025	15-May-23
23050211-001	Ethane	I	0.5	ppmv	0.1	NA-025	15-May-23
23050211-001	Ethylacetylene	K, T, U	< 0.09	ppmv	0.09	NA-025	15-May-23
23050211-001	Ethylene	K, T, U	< 0.10	ppmv	0.10	NA-025	15-May-23
23050211-001	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-001	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-001	Methane		2.6	ppmv	0.1	NA-025	15-May-23
23050211-001	n-Propane	K, T, U	< 0.10	ppmv	0.10	NA-025	15-May-23
23050211-001	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-001	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-001	trans-2-Butene	K, T, U	< 0.13	ppmv	0.13	NA-025	15-May-23
23050211-001	2,5-Dimethylthiophene	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-001	2-Ethylthiophene	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-001	2-Methylthiophene	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing
Date: June 12, 2023 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-001	3-Methylthiophene	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-001	Butyl mercaptan	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-001	Carbon disulphide	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-001	Carbonyl sulphide	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-001	Dimethyl disulphide	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-001	Dimethyl sulphide	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-001	Ethyl mercaptan	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-001	Ethyl sulphide	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-001	Hydrogen sulphide	K, T, U, Q	< 0.1	ppbv	0.1	NA-024	15-May-23
23050211-001	Isobutyl mercaptan	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-001	Isopropyl mercaptan	K, T, U, Q	< 0.1	ppbv	0.1	NA-024	15-May-23
23050211-001	Methyl mercaptan	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-001	Pentyl mercaptan	K, T, U, Q	< 0.6	ppbv	0.6	NA-024	15-May-23
23050211-001	Propyl mercaptan	K, T, U, Q	< 0.6	ppbv	0.6	NA-024	15-May-23
23050211-001	tert-Butyl mercaptan	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-001	Thiophene/sec-Butyl mercaptan	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-001	1,1,1-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	1,1,2-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	1,1-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	1,1-Dichloroethylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	1,2,3-Trimethylbenzene		0.53	ppbv	0.07	AC-058	18-May-23
23050211-001	1,2,4-Trichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	1,2,4-Trimethylbenzene		0.33	ppbv	0.04	AC-058	18-May-23
23050211-001	1,2-Dibromoethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23

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

Date: June 12, 2023 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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Vegreville, Alberta
Canada T9C 1T4
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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-001	1,2-Dichlorobenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	1,2-Dichloroethane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	1,2-Dichloropropane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	1,3,5-Trimethylbenzene	I	0.16	ppbv	0.04	AC-058	18-May-23
23050211-001	1,3-Butadiene		0.57	ppbv	0.04	AC-058	18-May-23
23050211-001	1,3-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	18-May-23
23050211-001	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	18-May-23
23050211-001	1,4-Dioxane	K, T, U	< 0.7	ppbv	0.7	AC-058	18-May-23
23050211-001	1-Butene/Isobutylene		3.82	ppbv	0.09	AC-058	18-May-23
23050211-001	1-Hexene/2-Methyl-1-pentene		0.40	ppbv	0.10	AC-058	18-May-23
23050211-001	1-Pentene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	2,2,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	2,2-Dimethylbutane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	2,3,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	2,3-Dimethylbutane	K, T, U	< 0.13	ppbv	0.13	AC-058	18-May-23
23050211-001	2,3-Dimethylpentane	I	0.06	ppbv	0.03	AC-058	18-May-23
23050211-001	2,4-Dimethylpentane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	2-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	2-Methylhexane	I	0.07	ppbv	0.04	AC-058	18-May-23
23050211-001	2-Methylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	3-Methylheptane	I	0.05	ppbv	0.04	AC-058	18-May-23
23050211-001	3-Methylhexane	I	0.07	ppbv	0.03	AC-058	18-May-23
23050211-001	3-Methylpentane	I	0.12	ppbv	0.03	AC-058	18-May-23
23050211-001	Acetone		14.6	ppbv	0.6	AC-058	18-May-23
23050211-001	Acrolein		1.0	ppbv	0.4	AC-058	18-May-23

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

Date: June 12, 2023 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-001	Benzene		6.87	ppbv	0.04	AC-058	18-May-23
23050211-001	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	Bromodichloromethane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	Bromoform	I	0.04	ppbv	0.03	AC-058	18-May-23
23050211-001	Bromomethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Carbon disulfide	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Carbon tetrachloride	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Chloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Chloroform	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Chloromethane		0.80	ppbv	0.06	AC-058	18-May-23
23050211-001	cis-1,2-Dichloroethene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	cis-1,3-Dichloropropene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	cis-2-Butene		0.40	ppbv	0.04	AC-058	18-May-23
23050211-001	cis-2-Pentene		0.20	ppbv	0.03	AC-058	18-May-23
23050211-001	Cyclohexane	I	0.12	ppbv	0.06	AC-058	18-May-23
23050211-001	Cyclopentane		0.24	ppbv	0.03	AC-058	18-May-23
23050211-001	Dibromochloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Ethanol		2.1	ppbv	0.7	AC-058	18-May-23
23050211-001	Ethyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	Ethylbenzene		0.43	ppbv	0.04	AC-058	18-May-23
23050211-001	Freon-11		0.16	ppbv	0.03	AC-058	18-May-23
23050211-001	Freon-113	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Freon-114	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	Freon-12		0.49	ppbv	0.04	AC-058	18-May-23

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

Date: June 12, 2023 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-001	Hexachloro-1,3-butadiene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	Isobutane		3.69	ppbv	0.04	AC-058	18-May-23
23050211-001	Isopentane		0.59	ppbv	0.06	AC-058	18-May-23
23050211-001	Isoprene		0.40	ppbv	0.03	AC-058	18-May-23
23050211-001	Isopropyl alcohol	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	Isopropylbenzene	I	0.08	ppbv	0.06	AC-058	18-May-23
23050211-001	m,p-Xylene		0.67	ppbv	0.06	AC-058	18-May-23
23050211-001	m-Diethylbenzene		1.29	ppbv	0.03	AC-058	18-May-23
23050211-001	m-Ethyltoluene		0.33	ppbv	0.04	AC-058	18-May-23
23050211-001	Methyl butyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	18-May-23
23050211-001	Methyl ethyl ketone		1.5	ppbv	0.4	AC-058	18-May-23
23050211-001	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	Methyl methacrylate	K, T, U	< 0.12	ppbv	0.12	AC-058	18-May-23
23050211-001	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	Methylcyclohexane	I	0.13	ppbv	0.03	AC-058	18-May-23
23050211-001	Methylcyclopentane	I	0.14	ppbv	0.07	AC-058	18-May-23
23050211-001	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	n-Butane		2.43	ppbv	0.03	AC-058	18-May-23
23050211-001	n-Decane		0.23	ppbv	0.09	AC-058	18-May-23
23050211-001	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	n-Heptane		0.36	ppbv	0.06	AC-058	18-May-23
23050211-001	n-Hexane		0.53	ppbv	0.04	AC-058	18-May-23
23050211-001	n-Octane		0.33	ppbv	0.03	AC-058	18-May-23
23050211-001	n-Pentane		1.04	ppbv	0.06	AC-058	18-May-23
23050211-001	n-Propylbenzene		0.20	ppbv	0.09	AC-058	18-May-23

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-001	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	18-May-23
23050211-001	Naphthalene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	n-Nonane		0.25	ppbv	0.06	AC-058	18-May-23
23050211-001	o-Ethyltoluene		0.26	ppbv	0.03	AC-058	18-May-23
23050211-001	o-Xylene		0.36	ppbv	0.04	AC-058	18-May-23
23050211-001	p-Diethylbenzene		0.18	ppbv	0.03	AC-058	18-May-23
23050211-001	p-Ethyltoluene	K, T, U	< 0.06	ppbv	0.06	AC-058	18-May-23
23050211-001	Styrene		0.38	ppbv	0.06	AC-058	18-May-23
23050211-001	Tetrachloroethylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Tetrahydrofuran	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	Toluene		3.29	ppbv	0.04	AC-058	18-May-23
23050211-001	trans-1,2-Dichloroethylene		0.57	ppbv	0.09	AC-058	18-May-23
23050211-001	trans-1,3-Dichloropropylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	trans-2-Butene		0.49	ppbv	0.04	AC-058	18-May-23
23050211-001	trans-2-Pentene		0.15	ppbv	0.03	AC-058	18-May-23
23050211-001	Trichloroethylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Vinyl acetate		270	ppbv	4.4	AC-058	18-May-23
23050211-001	Vinyl chloride	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23

DESCRIPTION: NMHC Blank

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-002	1-Butene	K, T, U	< 0.10	ppmv	0.10	NA-025	15-May-23
23050211-002	Acetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	15-May-23
23050211-002	n-Butane	K, T, U	< 0.2	ppmv	0.2	NA-025	15-May-23
23050211-002	cis-2-Butene	K, T, U	< 0.04	ppmv	0.04	NA-025	15-May-23
23050211-002	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-002	Ethylacetylene	K, T, U	< 0.06	ppmv	0.06	NA-025	15-May-23
23050211-002	Ethylene	K, T, U	< 0.07	ppmv	0.07	NA-025	15-May-23
23050211-002	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-002	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-002	Methane	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-002	n-Propane	K, T, U	< 0.07	ppmv	0.07	NA-025	15-May-23
23050211-002	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-002	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	15-May-23
23050211-002	trans-2-Butene	K, T, U	< 0.09	ppmv	0.09	NA-025	15-May-23
23050211-002	2,5-Dimethylthiophene	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-002	2-Ethylthiophene	K, T, U, Q	< 0.2	ppbv	0.2	NA-024	15-May-23
23050211-002	2-Methylthiophene	K, T, U, Q	< 0.2	ppbv	0.2	NA-024	15-May-23
23050211-002	3-Methylthiophene	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-002	Butyl mercaptan	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-002	Carbon disulphide	K, T, U, Q	< 0.2	ppbv	0.2	NA-024	15-May-23
23050211-002	Carbonyl sulphide	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-002	Dimethyl disulphide	K, T, U, Q	< 0.2	ppbv	0.2	NA-024	15-May-23
23050211-002	Dimethyl sulphide	K, T, U, Q	< 0.2	ppbv	0.2	NA-024	15-May-23
23050211-002	Ethyl mercaptan	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-002	Ethyl sulphide	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23

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

Date: June 12, 2023 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23

DESCRIPTION: NMHC Blank

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-002	Hydrogen sulphide	K, T, U, Q	< 0.1	ppbv	0.1	NA-024	15-May-23
23050211-002	Isobutyl mercaptan	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-002	Isopropyl mercaptan	K, T, U, Q	< 0.1	ppbv	0.1	NA-024	15-May-23
23050211-002	Methyl mercaptan	K, T, U, Q	< 0.2	ppbv	0.2	NA-024	15-May-23
23050211-002	Pentyl mercaptan	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-002	Propyl mercaptan	K, T, U, Q	< 0.4	ppbv	0.4	NA-024	15-May-23
23050211-002	tert-Butyl mercaptan	K, T, U, Q	< 0.3	ppbv	0.3	NA-024	15-May-23
23050211-002	Thiophene/sec-Butyl mercaptan	K, T, U, Q	< 0.2	ppbv	0.2	NA-024	15-May-23
23050211-002	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	1,1-Dichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	1,2,3-Trimethylbenzene		0.13	ppbv	0.05	AC-058	18-May-23
23050211-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	1,2,4-Trimethylbenzene	I	0.10	ppbv	0.03	AC-058	18-May-23
23050211-002	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	1,2-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	1,2-Dichloropropane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	1,3,5-Trimethylbenzene	I	0.07	ppbv	0.03	AC-058	18-May-23
23050211-002	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-002	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-002	1,4-Dioxane	K, T, U	< 0.5	ppbv	0.5	AC-058	18-May-23

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

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23

DESCRIPTION: NMHC Blank

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-002	1-Butene/Isobutylene		0.51	ppbv	0.06	AC-058	18-May-23
23050211-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07	ppbv	0.07	AC-058	18-May-23
23050211-002	1-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	2,2,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	2,2-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	2,3,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	2,3-Dimethylbutane	K, T, U	< 0.09	ppbv	0.09	AC-058	18-May-23
23050211-002	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	2,4-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	2-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	2-Methylhexane	I	0.04	ppbv	0.03	AC-058	18-May-23
23050211-002	2-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	3-Methylhexane	I	0.04	ppbv	0.02	AC-058	18-May-23
23050211-002	3-Methylpentane	I	0.03	ppbv	0.02	AC-058	18-May-23
23050211-002	Acetone		1.7	ppbv	0.4	AC-058	18-May-23
23050211-002	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	Benzene	I	0.05	ppbv	0.03	AC-058	18-May-23
23050211-002	Benzyl chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	Bromoform	I	0.03	ppbv	0.02	AC-058	18-May-23
23050211-002	Bromomethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Carbon disulfide	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Carbon tetrachloride	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23

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

Date: June 12, 2023

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23

DESCRIPTION: NMHC Blank

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-002	Chloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Chloroform	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Chloromethane		0.18	ppbv	0.04	AC-058	18-May-23
23050211-002	cis-1,2-Dichloroethene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	cis-1,3-Dichloropropene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	cis-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	cis-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Cyclohexane	I	0.06	ppbv	0.04	AC-058	18-May-23
23050211-002	Cyclopentane	I	0.05	ppbv	0.02	AC-058	18-May-23
23050211-002	Dibromochloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Ethanol		1.1	ppbv	0.5	AC-058	18-May-23
23050211-002	Ethyl acetate	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	Ethylbenzene	I	0.08	ppbv	0.03	AC-058	18-May-23
23050211-002	Freon-11	I	0.04	ppbv	0.02	AC-058	18-May-23
23050211-002	Freon-113	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Freon-114	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	Freon-12	I	0.07	ppbv	0.03	AC-058	18-May-23
23050211-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	Isobutane		0.43	ppbv	0.03	AC-058	18-May-23
23050211-002	Isopentane	I	0.09	ppbv	0.04	AC-058	18-May-23
23050211-002	Isoprene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Isopropyl alcohol		0.5	ppbv	0.3	AC-058	18-May-23
23050211-002	Isopropylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-002	m,p-Xylene	I	0.07	ppbv	0.04	AC-058	18-May-23
23050211-002	m-Diethylbenzene		0.13	ppbv	0.02	AC-058	18-May-23

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23

DESCRIPTION: NMHC Blank

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-002	m-Ethyltoluene	I	0.07	ppbv	0.03	AC-058	18-May-23
23050211-002	Methyl butyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-002	Methyl ethyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	Methyl isobutyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	Methyl methacrylate	K, T, U	< 0.08	ppbv	0.08	AC-058	18-May-23
23050211-002	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	Methylcyclohexane	I	0.03	ppbv	0.02	AC-058	18-May-23
23050211-002	Methylcyclopentane	K, T, U	< 0.05	ppbv	0.05	AC-058	18-May-23
23050211-002	Methylene chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	n-Butane		0.16	ppbv	0.02	AC-058	18-May-23
23050211-002	n-Decane	K, T, U	< 0.06	ppbv	0.06	AC-058	18-May-23
23050211-002	n-Dodecane	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	n-Heptane	I	0.07	ppbv	0.04	AC-058	18-May-23
23050211-002	n-Hexane	I	0.04	ppbv	0.03	AC-058	18-May-23
23050211-002	n-Octane	I	0.08	ppbv	0.02	AC-058	18-May-23
23050211-002	n-Pentane	I	0.09	ppbv	0.04	AC-058	18-May-23
23050211-002	n-Propylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	18-May-23
23050211-002	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	18-May-23
23050211-002	Naphthalene	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	n-Nonane	I	0.05	ppbv	0.04	AC-058	18-May-23
23050211-002	o-Ethyltoluene	I	0.07	ppbv	0.02	AC-058	18-May-23
23050211-002	o-Xylene	I	0.06	ppbv	0.03	AC-058	18-May-23
23050211-002	p-Diethylbenzene	I	0.06	ppbv	0.02	AC-058	18-May-23
23050211-002	p-Ethyltoluene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-002	Styrene	I	0.09	ppbv	0.04	AC-058	18-May-23

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

Date: June 12, 2023

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23

DESCRIPTION: NMHC Blank

REPORT NUMBER: 23050211 **REPORT CREATED:** 12-Jun-23 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-002	Tetrachloroethylene	I	0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Tetrahydrofuran	K, T, U	< 0.3	ppbv	0.3	AC-058	18-May-23
23050211-002	Toluene	I	0.07	ppbv	0.03	AC-058	18-May-23
23050211-002	trans-1,2-Dichloroethylene		2.33	ppbv	0.06	AC-058	18-May-23
23050211-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	trans-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-002	trans-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Trichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23
23050211-002	Vinyl acetate		10.8	ppbv	0.3	AC-058	18-May-23
23050211-002	Vinyl chloride	K, T, U	< 0.02	ppbv	0.02	AC-058	18-May-23

Revision History

Order ID	Ver	Date	Reason
23050211	01	12-Jun-23	Report created

Methods

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

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

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

Qualifiers

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

Order Comments

23050211

Send results to pramptech@prampairshed.ca

Sample Comments

Result Comments

Note:

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

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

23050211-001 VOC FULL

Suspected vinyl acetate contamination issue from the gauge used to measure sample canister pressure.

23050211-002 VOC FULL

Suspected vinyl acetate contamination issue from the gauge used to measure sample canister pressure.

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

ANALYTICAL INFORMATION

Sample ID or Location (LSD)	Sample Start Date (DD/MM/YY)	Time (24 hrs) (HH:MM)	Sample End Date (DD/MM/YY)	Time (HH:MM)	Volume (m3) *PM/TSP Only*	Analysis Required: SO2	H2S	NO2	O3	NH3	PM2.5	PM10	TSP	Dustfall				
1	01/05/23	7:00	01/06/23	8:00 am		X	X											
2						X	X											
3						X	X											
4						X	X											
7						X	X											
8						X	X											
9						X	X											
10						X	X											
11						X	X											
12						X	X											
13						X	X											
14		9:30		11:00 am		X	X											
Blank						X	X											
Blank						X	X											

Notes/Comments: Client 12521 / Scenario 18009

SO2 – 14 RL @ 10:00 June 1/23

H2S – 14

Sampled By Bo Guerin Phone/Email 618 1880 Received By Bo Guerin Date/Time June 1. 23 Project # CNRL PRC

Date Shipped ___ Signature ___ PO# ___

PTC FCD-00457/4

Your Project #: 2023/05/01 - 2023/06/01
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: 2023/06/16
Report #: R3350887
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C340554
Received: 2023/06/05, 10:00

Sample Matrix: Air
Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis	12	2023/06/13	2023/06/15	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	12	2023/06/07	2023/06/15	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 Jun 2023 09:05:52

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

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Bureau Veritas 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 #: C340554
Report Date: 2023/06/16

Peace River Area Monitoring Program Committee
Client Project #: 2023/05/01 - 2023/06/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: RH

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		BRU440	BRU441	BRU442	BRU443	BRU444	BRU445	BRU446		
Sampling Date		2023/05/01 07:00	2023/05/01 07:00	2023/05/01 07:00	2023/05/01 07:00	2023/05/01 07:00	2023/05/01 07:00	2023/05/01 07:00		
	UNITS	1	2	3	4	7	8	9	RDL	QC Batch
Passive Monitoring										
Calculated H2S	ppb	0.27	0.29	0.31	0.45	0.25	0.28	0.23	0.02	A993059
Calculated SO2	ppb	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.1	A987105
RDL = Reportable Detection Limit										

Bureau Veritas ID		BRU447	BRU448	BRU449	BRU450	BRU451		
Sampling Date		2023/05/01 07:00	2023/05/01 07:00	2023/05/01 07:00	2023/05/01 07:00	2023/05/01 09:30		
	UNITS	10	11	12	13	14	RDL	QC Batch
Passive Monitoring								
Calculated H2S	ppb	0.28	0.82	0.27	0.46	0.42	0.02	A993059
Calculated SO2	ppb	0.3	0.4	0.3	0.5	1.1	0.1	A987105
RDL = Reportable Detection Limit								

GENERAL COMMENTS

Results relate only to the items tested.

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

Bureau Veritas Job #: C340554
Report Date: 2023/06/16

Peace River Area Monitoring Program Committee
Client Project #: 2023/05/01 - 2023/06/01
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
A987105	OZ	Spiked Blank	Calculated SO2			105	%	90 - 110
A987105	OZ	Method Blank	Calculated SO2		<0.1		ppb	
A993059	YYA	Spiked Blank	Calculated H2S			101	%	90 - 110

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

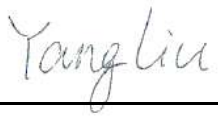
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Bureau Veritas Job #: C340554
Report Date: 2023/06/16

Peace River Area Monitoring Program Committee
Client Project #: 2023/05/01 - 2023/06/01
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