



## Peace River Area Monitoring Program

# SEPTEMBER 2023

## Monthly Ambient Air Quality Monitoring Report

### PRAMP-202309

#### **Operation and Maintenance:**

Bureau Veritas Canada

#### **Data Validation and Report:**

Peace River Area Monitoring Program

October 18, 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
CH <sub>4</sub>	Methane
EPEA	Environmental Protection and Enhancement Act
H <sub>2</sub> S	Hydrogen Sulphide
kph	kilometers per hour
mb	millibar
mm	millimeter
NMHC	Non-Methane Hydrocarbons
ppb	parts per billion
ppm	parts per million
PRAMP	Peace River Area Monitoring Program
RH	Relative Humidity
SO <sub>2</sub>	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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October 18, 2023

**RE: PRAMP – September 2023 Monthly Ambient Air Quality Monitoring Report**

Enclosed is the September 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

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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 September 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 September 2023

### 986-C Station

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

### 842-B Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except BP (61.7%).
- 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.
- Due to HVAC unit failure which affected station temperatures, most gas analyzers, including SO<sub>2</sub>, TRS, NO<sub>x</sub>/NO/NO<sub>2</sub>, O<sub>3</sub> and THC/CH<sub>4</sub>/NMHC, did not meet the 90% operational uptime requirement in September. **AEPA reference #: 420864.**
- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable, except PM<sub>2.5</sub>. One hundred sixty-eight 1-hour PM<sub>2.5</sub> exceedances and eighteen 24-hour PM<sub>2.5</sub> exceedances were recorded this month. Both nearby and distant wildfires contributed to intense local wildfire smoke conditions and numerous PM<sub>2.5</sub> exceedances measured by PRAMP.

Date	Time (MST)	Parameter	Average Period	Concentration (µg/m <sup>3</sup> )	Wind speed (km/hr)	Wind Direction	Reference #
1-Sep	23	PM2.5	1-Hour	173	13.3	271°(W)	418931
1-Sep	-	PM2.5	24-Hour	44	14.6	251°(WSW)	418931
2-Sep	0	PM2.5	1-Hour	269	9.0	288°(WNW)	418931

Date	Time (MST)	Parameter	Average Period	Concentration (µg/m3)	Wind speed (km/hr)	Wind Direction	Reference #
2-Sep	1	PM2.5	1-Hour	340	10.9	305°(WNW)	418931
2-Sep	2	PM2.5	1-Hour	350	9.8	315°(NW)	418931
2-Sep	3	PM2.5	1-Hour	396	8.6	284°(WNW)	418931
2-Sep	4	PM2.5	1-Hour	424	9.8	298°(WNW)	418931
2-Sep	5	PM2.5	1-Hour	421	11.1	300°(WNW)	418931
2-Sep	6	PM2.5	1-Hour	434	11.9	308°(NW)	418931
2-Sep	7	PM2.5	1-Hour	469	12.1	310°(NW)	418931
2-Sep	8	PM2.5	1-Hour	419	11.1	309°(NW)	418931
2-Sep	9	PM2.5	1-Hour	463	11.1	302°(WNW)	418931
2-Sep	10	PM2.5	1-Hour	453	8.9	292°(WNW)	418931
2-Sep	11	PM2.5	1-Hour	382	9.8	282°(W)	418931
2-Sep	12	PM2.5	1-Hour	312	11.4	310°(NW)	418931
2-Sep	13	PM2.5	1-Hour	348	7.8	333°(NNW)	418931
2-Sep	14	PM2.5	1-Hour	298	6.9	317°(NW)	418931
2-Sep	15	PM2.5	1-Hour	228	8.9	318°(NW)	418931
2-Sep	16	PM2.5	1-Hour	157	6.9	308°(NW)	418931
2-Sep	17	PM2.5	1-Hour	127	3.7	297°(WNW)	418931
2-Sep	18	PM2.5	1-Hour	129	2.7	162°(SSE)	418931
2-Sep	19	PM2.5	1-Hour	123	2.8	152°(SSE)	418931
2-Sep	20	PM2.5	1-Hour	132	3.4	186°(S)	418931
2-Sep	21	PM2.5	1-Hour	135	3.9	203°(SSW)	418931
2-Sep	22	PM2.5	1-Hour	135	3.3	221°(SW)	418931
2-Sep	23	PM2.5	1-Hour	146	1.9	210°(SSW)	418931
2-Sep	-	PM2.5	24-Hour	295	7.8	286°(WNW)	418931
3-Sep	0	PM2.5	1-Hour	151	4.8	262°(W)	418931
3-Sep	1	PM2.5	1-Hour	157	3.9	237°(SW)	418931
3-Sep	2	PM2.5	1-Hour	116	5.7	224°(SW)	418931
3-Sep	3	PM2.5	1-Hour	90	6.8	232°(SW)	418931
3-Sep	4	PM2.5	1-Hour	101	10.3	270°(W)	418931
3-Sep	5	PM2.5	1-Hour	116	10.3	307°(NW)	418931
3-Sep	6	PM2.5	1-Hour	168	7.8	339°(NNW)	418931
3-Sep	7	PM2.5	1-Hour	345	11.1	6°(N)	418931
3-Sep	8	PM2.5	1-Hour	395	6.4	13°(NNE)	418931
3-Sep	9	PM2.5	1-Hour	361	6.4	25°(NNE)	418931
3-Sep	10	PM2.5	1-Hour	242	10.8	19°(NNE)	418931
3-Sep	11	PM2.5	1-Hour	163	12.7	14°(NNE)	418931
3-Sep	12	PM2.5	1-Hour	154	11.3	5°(N)	418931
3-Sep	13	PM2.5	1-Hour	135	11.3	351°(N)	418931
3-Sep	-	PM2.5	24-Hour	130	8.8	336°(NNW)	418931

Date	Time (MST)	Parameter	Average Period	Concentration (µg/m3)	Wind speed (km/hr)	Wind Direction	Reference #
5-Sep	13	PM2.5	1-Hour	83	12.8	158°(SSE)	419220
5-Sep	14	PM2.5	1-Hour	84	10.6	181°(S)	419220
5-Sep	15	PM2.5	1-Hour	91	12.5	176°(S)	419220
5-Sep	16	PM2.5	1-Hour	89	14.7	155°(SSE)	419220
5-Sep	17	PM2.5	1-Hour	90	11.6	139°(SE)	419220
5-Sep	18	PM2.5	1-Hour	91	9.4	150°(SSE)	419220
5-Sep	19	PM2.5	1-Hour	90	6.5	147°(SE)	419220
5-Sep	20	PM2.5	1-Hour	92	2.9	133°(SE)	419220
5-Sep	21	PM2.5	1-Hour	93	2.1	122°(ESE)	419220
5-Sep	22	PM2.5	1-Hour	93	1.7	85°(E)	419220
5-Sep	23	PM2.5	1-Hour	83	1.5	37°(NE)	419220
5-Sep	-	PM2.5	24-Hour	61	6.8	112°(ESE)	419220
6-Sep	0	PM2.5	1-Hour	81	2.9	146°(SE)	419220
6-Sep	10	PM2.5	1-Hour	93	10.2	266°(W)	419220
6-Sep	11	PM2.5	1-Hour	90	12.0	280°(W)	419220
6-Sep	12	PM2.5	1-Hour	95	14.3	286°(WNW)	419220
6-Sep	13	PM2.5	1-Hour	89	13.6	285°(WNW)	419220
6-Sep	14	PM2.5	1-Hour	83	11.5	292°(WNW)	419220
6-Sep	15	PM2.5	1-Hour	82	9.5	308°(NW)	419220
6-Sep	18	PM2.5	1-Hour	95	5.0	40°(NE)	419220
6-Sep	19	PM2.5	1-Hour	126	5.4	58°(ENE)	419220
6-Sep	20	PM2.5	1-Hour	135	4.2	45°(NE)	419220
6-Sep	21	PM2.5	1-Hour	140	4.0	42°(NE)	419220
6-Sep	22	PM2.5	1-Hour	132	2.0	19°(NNE)	419220
6-Sep	23	PM2.5	1-Hour	131	1.7	335°(NNW)	419220
6-Sep	-	PM2.5	24-Hour	85	5.5	276°(W)	419220
7-Sep	0	PM2.5	1-Hour	125	2.6	268°(W)	419220
7-Sep	1	PM2.5	1-Hour	85	3.1	233°(SW)	419220
7-Sep	-	PM2.5	24-Hour	34	8.1	255°(WSW)	419220
9-Sep	-	PM2.5	24-Hour	31	3.9	71°(ENE)	419220
11-Sep	12	PM2.5	1-Hour	122	11.9	277°(W)	419626
11-Sep	13	PM2.5	1-Hour	315	14.6	276°(W)	419626
11-Sep	14	PM2.5	1-Hour	308	8.5	294°(WNW)	419626
11-Sep	15	PM2.5	1-Hour	290	9.1	257°(WSW)	419626
11-Sep	16	PM2.5	1-Hour	204	12.6	238°(SW)	419626
11-Sep	-	PM2.5	24-Hour	70	7.1	221°(SW)	419626
12-Sep	5	PM2.5	1-Hour	109	5.1	233°(SW)	419626
12-Sep	6	PM2.5	1-Hour	133	3.3	253°(WSW)	419626
12-Sep	7	PM2.5	1-Hour	123	4.1	198°(SSW)	419626

Date	Time (MST)	Parameter	Average Period	Concentration (µg/m3)	Wind speed (km/hr)	Wind Direction	Reference #
12-Sep	8	PM2.5	1-Hour	134	4.2	243°(WSW)	419626
12-Sep	9	PM2.5	1-Hour	185	2.2	224°(SW)	419626
12-Sep	10	PM2.5	1-Hour	288	6.7	240°(WSW)	419626
12-Sep	11	PM2.5	1-Hour	220	9.9	239°(WSW)	419626
12-Sep	12	PM2.5	1-Hour	162	13.7	263°(W)	419626
12-Sep	13	PM2.5	1-Hour	159	12.3	271°(W)	419626
12-Sep	14	PM2.5	1-Hour	126	11.1	272°(W)	419626
12-Sep	15	PM2.5	1-Hour	103	7.0	307°(NW)	419626
12-Sep	16	PM2.5	1-Hour	106	11.9	259°(WSW)	419626
12-Sep	-	PM2.5	24-Hour	107	7.7	246°(WSW)	419626
15-Sep	20	PM2.5	1-Hour	99	10.5	288°(WNW)	419626
15-Sep	21	PM2.5	1-Hour	154	10.4	280°(W)	419626
15-Sep	22	PM2.5	1-Hour	223	11.9	287°(WNW)	419626
15-Sep	23	PM2.5	1-Hour	190	10.7	306°(NW)	419626
15-Sep	-	PM2.5	24-Hour	49	9.1	168°(SSE)	419626
16-Sep	0	PM2.5	1-Hour	143	7.8	307°(NW)	419626
16-Sep	4	PM2.5	1-Hour	86	8.6	286°(WNW)	419626
16-Sep	5	PM2.5	1-Hour	92	8.7	305°(WNW)	419626
16-Sep	6	PM2.5	1-Hour	89	8.5	289°(WNW)	419626
16-Sep	8	PM2.5	1-Hour	86	4.1	173°(S)	419626
16-Sep	9	PM2.5	1-Hour	87	7.9	220°(SW)	419626
16-Sep	10	PM2.5	1-Hour	100	13.5	251°(WSW)	419626
16-Sep	11	PM2.5	1-Hour	101	14.8	248°(WSW)	419626
16-Sep	12	PM2.5	1-Hour	123	12.7	219°(SW)	419626
16-Sep	13	PM2.5	1-Hour	117	14.8	222°(SW)	419626
16-Sep	19	PM2.5	1-Hour	120	2.0	178°(S)	419626
16-Sep	20	PM2.5	1-Hour	167	0.2	358°(N)	419626
16-Sep	21	PM2.5	1-Hour	263	0.1	205°(SSW)	419626
16-Sep	22	PM2.5	1-Hour	294	0.8	56°(NE)	419626
16-Sep	23	PM2.5	1-Hour	334	5.7	10°(N)	419626
16-Sep	-	PM2.5	24-Hour	117	7.8	256°(WSW)	419626
17-Sep	0	PM2.5	1-Hour	336	4.3	52°(NE)	419626
17-Sep	1	PM2.5	1-Hour	316	7.0	73°(ENE)	419626
17-Sep	2	PM2.5	1-Hour	302	4.7	316°(NW)	419626
17-Sep	3	PM2.5	1-Hour	277	3.4	337°(NNW)	419626
17-Sep	4	PM2.5	1-Hour	262	2.8	273°(W)	419626
17-Sep	5	PM2.5	1-Hour	261	2.8	283°(W)	419626
17-Sep	6	PM2.5	1-Hour	269	3.9	252°(WSW)	419626
17-Sep	7	PM2.5	1-Hour	263	4.3	173°(S)	419626



Date	Time (MST)	Parameter	Average Period	Concentration (µg/m3)	Wind speed (km/hr)	Wind Direction	Reference #
17-Sep	8	PM2.5	1-Hour	259	3.5	210°(SSW)	419626
17-Sep	9	PM2.5	1-Hour	241	2.9	198°(SSW)	419626
17-Sep	10	PM2.5	1-Hour	173	15.8	261°(W)	419626
17-Sep	11	PM2.5	1-Hour	125	15.4	263°(W)	419626
17-Sep	15	PM2.5	1-Hour	94	21.3	244°(WSW)	419626
17-Sep	16	PM2.5	1-Hour	99	15.8	237°(SW)	419626
17-Sep	17	PM2.5	1-Hour	94	13.2	218°(SW)	419626
17-Sep	18	PM2.5	1-Hour	137	14.4	239°(WSW)	419626
17-Sep	19	PM2.5	1-Hour	157	9.1	213°(SSW)	419626
17-Sep	20	PM2.5	1-Hour	180	7.9	213°(SSW)	419626
17-Sep	21	PM2.5	1-Hour	181	9.0	230°(SW)	419626
17-Sep	22	PM2.5	1-Hour	163	1.6	209°(SSW)	419626
17-Sep	23	PM2.5	1-Hour	160	2.2	266°(W)	419626
17-Sep	-	PM2.5	24-Hour	187	9.3	243°(WSW)	419626
18-Sep	0	PM2.5	1-Hour	147	2.9	248°(WSW)	419924
18-Sep	-	PM2.5	24-Hour	32	15.2	245°(WSW)	419924
20-Sep	7	PM2.5	1-Hour	92	1.0	313°(NW)	419924
20-Sep	8	PM2.5	1-Hour	121	0.6	150°(SSE)	419924
20-Sep	9	PM2.5	1-Hour	230	4.7	22°(NNE)	419924
20-Sep	10	PM2.5	1-Hour	280	3.0	117°(ESE)	419924
20-Sep	11	PM2.5	1-Hour	324	2.1	163°(SSE)	419924
20-Sep	12	PM2.5	1-Hour	328	3.7	170°(SSE)	419924
20-Sep	13	PM2.5	1-Hour	265	4.3	181°(S)	419924
20-Sep	14	PM2.5	1-Hour	257	4.9	205°(SSW)	419924
20-Sep	15	PM2.5	1-Hour	257	1.8	305°(WNW)	419924
20-Sep	16	PM2.5	1-Hour	230	2.9	194°(SSW)	419924
20-Sep	17	PM2.5	1-Hour	140	6.7	189°(S)	419924
20-Sep	18	PM2.5	1-Hour	151	5.8	227°(SW)	419924
20-Sep	19	PM2.5	1-Hour	197	4.1	256°(WSW)	419924
20-Sep	20	PM2.5	1-Hour	222	4.7	253°(WSW)	419924
20-Sep	21	PM2.5	1-Hour	159	5.1	228°(SW)	419924
20-Sep	22	PM2.5	1-Hour	133	6.0	217°(SW)	419924
20-Sep	23	PM2.5	1-Hour	133	5.6	211°(SSW)	419924
20-Sep	-	PM2.5	24-Hour	152	4.3	243°(WSW)	419924
21-Sep	0	PM2.5	1-Hour	127	4.9	210°(SSW)	419924
21-Sep	1	PM2.5	1-Hour	115	6.1	211°(SSW)	419924
21-Sep	2	PM2.5	1-Hour	107	5.1	199°(SSW)	419924
21-Sep	3	PM2.5	1-Hour	96	6.0	205°(SSW)	419924
21-Sep	4	PM2.5	1-Hour	88	6.7	195°(SSW)	419924

Date	Time (MST)	Parameter	Average Period	Concentration (µg/m3)	Wind speed (km/hr)	Wind Direction	Reference #
21-Sep	-	PM2.5	24-Hour	45	12.1	202°(SSW)	419924
25-Sep	6	PM2.5	1-Hour	208	4.9	33°(NNE)	420404
25-Sep	7	PM2.5	1-Hour	265	5.7	35°(NE)	420404
25-Sep	8	PM2.5	1-Hour	103	8.9	45°(NE)	420404
25-Sep	-	PM2.5	24-Hour	33	8.6	76°(ENE)	420404
28-Sep	13	PM2.5	1-Hour	87	5.8	360°(N)	420404
28-Sep	14	PM2.5	1-Hour	101	6.3	4°(N)	420404
28-Sep	15	PM2.5	1-Hour	109	6.7	14°(NNE)	420404
28-Sep	16	PM2.5	1-Hour	114	6.5	21°(NNE)	420404
28-Sep	17	PM2.5	1-Hour	107	6.6	13°(NNE)	420404
28-Sep	18	PM2.5	1-Hour	103	5.4	22°(NNE)	420404
28-Sep	19	PM2.5	1-Hour	97	6.6	20°(NNE)	420404
28-Sep	20	PM2.5	1-Hour	82	9.4	19°(NNE)	420404
28-Sep	21	PM2.5	1-Hour	92	8.7	19°(NNE)	420404
28-Sep	22	PM2.5	1-Hour	91	8.0	14°(NNE)	420404
28-Sep	23	PM2.5	1-Hour	87	8.7	17°(NNE)	420404
28-Sep	-	PM2.5	24-Hour	53	6.4	350°(N)	420404
29-Sep	0	PM2.5	1-Hour	93	7.8	20°(NNE)	420404
29-Sep	1	PM2.5	1-Hour	96	5.9	21°(NNE)	420404
29-Sep	2	PM2.5	1-Hour	102	5.3	12°(NNE)	420404
29-Sep	3	PM2.5	1-Hour	106	4.4	3°(N)	420404
29-Sep	4	PM2.5	1-Hour	112	4.3	16°(NNE)	420404
29-Sep	5	PM2.5	1-Hour	111	5.5	5°(N)	420404
29-Sep	6	PM2.5	1-Hour	110	5.5	15°(NNE)	420404
29-Sep	7	PM2.5	1-Hour	92	6.0	12°(NNE)	420404
29-Sep	8	PM2.5	24-Hour	89	4.6	43°(NE)	420404
29-Sep	-	PM2.5	24-Hour	61	4.6	43°(NE)	420404

- Station HVAC unit:** The compressor in the HVAC unit failed on September 10. The station temperatures subsequently rose above the manufacturer’s recommended/ EPA designated operating temperature ranges for most gas analyzers (EPA designation for NOx/NO/NO2, H2S and THC/CH4/NMHC < 35°C and for SO2 and O3 < 30 °C) between September 10 and September 12 and between September 15 and September 18. Data quality collected during this period could have been affected by the issue and therefore were discarded. One hundred and ten hours of downtime were recorded in September as a result. Based on the manufacturer’s specification for PM2.5 (T640 analyzer), the acceptable operation temperature range is 4 °C - 50°C. Data quality was not affected by the high shelter temperatures. Data were considered valid.
- AQHI values:** Due to the HVAC unit issue, the quality of data collected by most gas analyzers between September 10 and September 12 and between September 15 and September 18 were

affected and were invalidated. As NO<sub>2</sub>, O<sub>3</sub> and PM<sub>2.5</sub> are the parameters used to calculate the AQHI value, the AQHI values during this period were affected. However, considering that that 1) although elevated, the station temperature was still within the operating range of the PM<sub>2.5</sub> instrument, and 2) wildfires in and around the PRAMP region led to elevated PM<sub>2.5</sub> concentrations, PM<sub>2.5</sub> was the predominant parameter driving the AQHI values during the time the HVAC unit failed. As a result, AQHI values were not discarded and were kept for *reference use*.

### 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.
- Two canister events were recorded this month.

Station	Date	Time	Concentration (ppm)
842-B	20-Sept	14:35	0.31
Reno-B	29-Sept	19:35	0.32

## 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

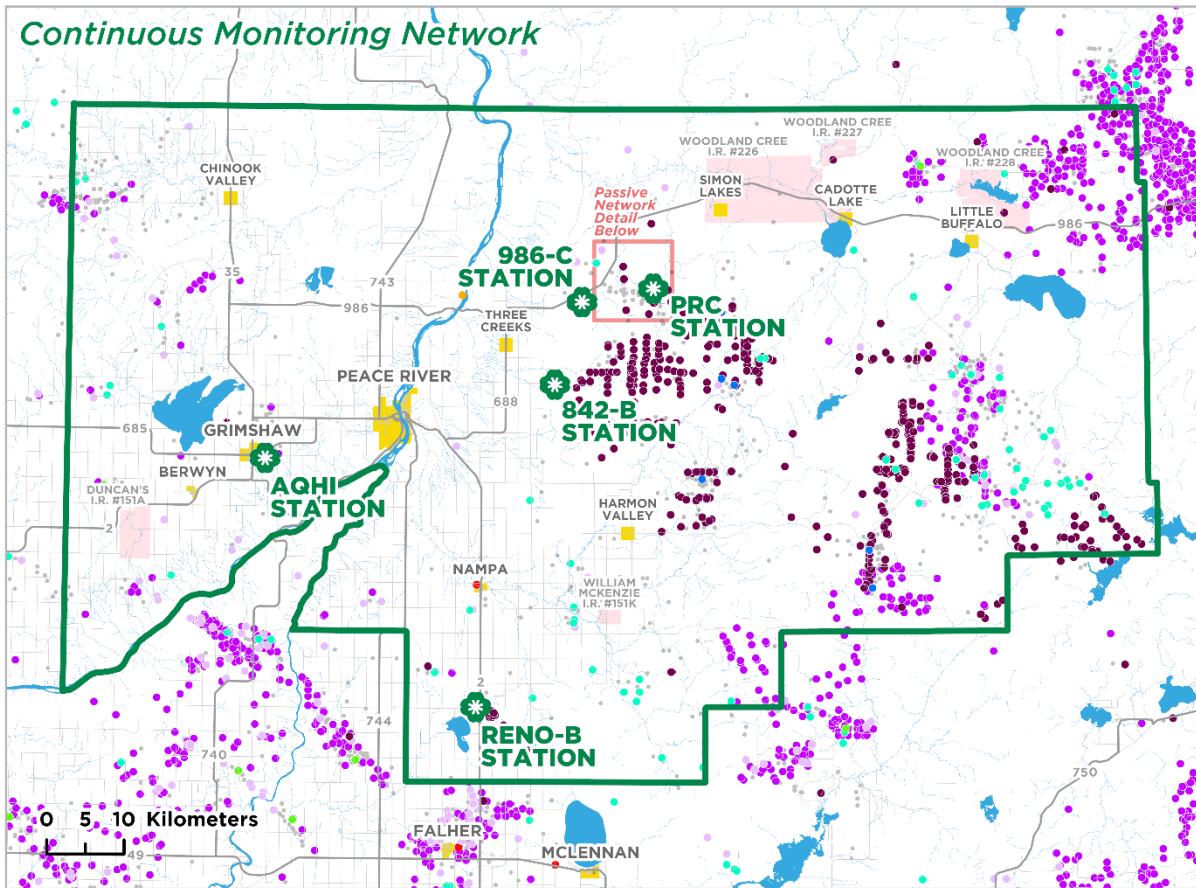
This report was reviewed by Michael Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

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

# Map of PRAMP Continuous Monitoring Network

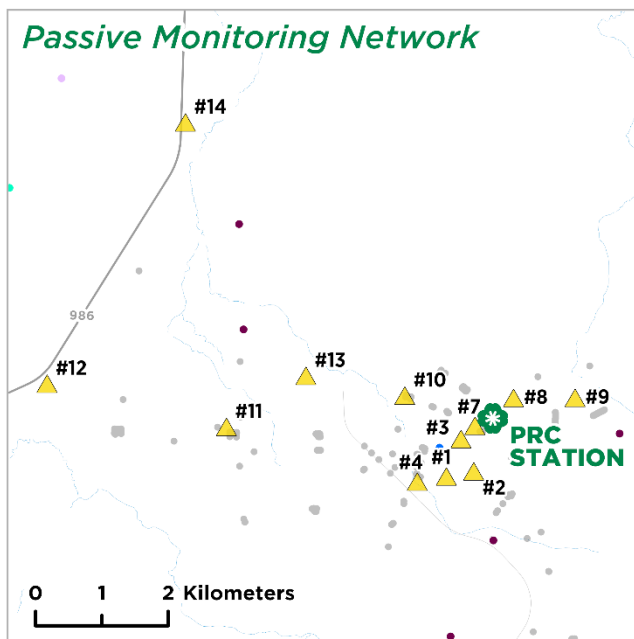


## Legend

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

## Industrial Facilities

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



Service Layer Credit: Esri, CGIAR, USGS, Esri, USGS

# CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY

**Equipment Operation Summary**

Parameter	Equipment Operational Summary
<p><b>SO2</b></p> <p>Thermo 43iQTL #1193585646</p>	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 13.</li> <li>• The analyzer failed on September 16. Upon arrival the site on September 18, it was found that the analyzer was frozen due to a firmware issue. The analyzer was reset, and the firmware was updated. A repeat zero-span check was delayed until September 19 to allow the permeation oven temperature rose to the desire temperature. Due to this event, fifty-six hours of downtime were recorded.</li> <li>• The analyzer span check results were stable but below the acceptable limit after the firmware update on September 18. A successful repeat multi-point calibration was completed to correct the drift on September 26. As the analyzer passed the calibration check requirements, data collected between September 18 and September 26 were considered valid. However, five hours of downtime were recorded due to the additional quality check.</li> </ul>
<p><b>TRS</b></p> <p>Thermo 43iQTL #1191833341</p> <p>TRS convertor CD Nova CDN-101 #530 (BV-supplied)</p>	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 13.</li> <li>• No operational issues were identified this month.</li> </ul>
<p><b>THC/CH4/NMHC</b></p> <p>Thermo 55i #1022143392</p>	<ul style="list-style-type: none"> <li>• Maintenance was completed on the H2 generator before the monthly calibration was started on September 13. The desiccant was exchanged. A successful monthly calibration was performed afterwards. One hour of downtime was recorded due to the maintenance activity.</li> </ul>
<p><b>RH</b></p> <p>Rotronic HC2-S3 #20626912</p>	<ul style="list-style-type: none"> <li>• The RH probe was checked on September 13. The probe passed the check requirements.</li> <li>• Due to datalogger polling issues, hourly data collected on September 19 hour 10 was invalid as the hourly data completeness requirement did not meet.</li> </ul>
<p><b>BP</b></p> <p>MetOne 092 #Y23358</p>	<ul style="list-style-type: none"> <li>• The BP sensor was checked on September 13. The sensor passed the check requirements.</li> <li>• Due to datalogger polling issues, hourly data collected on September 19 hour 10 was invalid as the hourly data completeness requirement did not meet.</li> </ul>



<p><b>AT</b></p> <p>Rotronic HC2-S3 #20626912</p>	<ul style="list-style-type: none"> <li>• The AT probe was checked on September 13. The probe passed the check requirements.</li> <li>• Due to datalogger polling issues, hourly data collected on September 19 hour 10 was invalid as the hourly data completeness requirement did not meet.</li> </ul>
<p><b>ST</b></p> <p>COMET #18961918</p>	<ul style="list-style-type: none"> <li>• No operational issues were identified this month.</li> </ul>
<p><b>Precipitation</b></p> <p>RM Young 52202 #TB 16325</p>	<ul style="list-style-type: none"> <li>• Upon arrival the station on September 13, it was found that the precipitation gauge was blocked by debris. The drain holes were cleared on the same day. After reviewing the data which was collected between the last system check on August 9 and September 13 and comparing data with precipitation data that were collected at other PRAMP stations, it was concluded that the issue had minimum to none affect to data quality. As a result, all data were kept for <i>reference uses</i>.</li> <li>• After maintenance was completed on the precipitation gauge on September 13, including clearing the debris and adding the bird obstacles, the gauge was checked. The unit passed the check requirements.</li> </ul>
<p><b>WS/ WD</b></p> <p>RM Young 05305AQ #180340</p>	<ul style="list-style-type: none"> <li>• Wind direction data contained in this report represents where the wind is coming from.</li> <li>• The annual wind system calibration was completed on August 3, 2023.</li> <li>• The anemometer sensors were check on September 13. The wind system passed the check requirements.</li> <li>• Due to datalogger polling issues, hourly data collected on September 19 hour 10 was invalid as the hourly data completeness requirement did not meet.</li> </ul>

**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	3	Sep 20 at hr 17	1.9	S	0.6	Sep 20	91.5	86.9
TRS (ppb)	-	-	-	-	-	-	0.91	0.08	6.74	Sep 14 at hr 19	11.3	SSE	2.86	Sep 29	100.0	95.1
THC (ppm)	-	-	-	-	-	-	2.02	1.89	2.50	Sep 20 at hr 12	2.8	NW	2.22	Sep 20	99.9	95.0
CH4 (ppm)	-	-	-	-	-	-	2.02	1.89	2.47	Sep 20 at hr 12	2.8	NW	2.21	Sep 20	99.9	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.03	Sep 20 at hr 12	2.8	NW	0.00	Sep 20	99.9	95.0
RH (%)	-	-	-	-	-	-	66.6	18	100	Sep 1 at hr 3	5.9	S	97.8	Sep 28	99.9	99.9
BP (millibar)	-	-	-	-	-	-	939	927	954	Sep 9 at hr 8	0.2	N	952	Sep 9	99.9	99.9
Ext. Temp. (°C)	-	-	-	-	-	-	12.1	-0.8	26.1	Sep 10 at hr 16	8.5	SE	17.3	Sep 1	99.9	99.9
Stn. Temp. (°C)	-	-	-	-	-	-	23.3	22.3	24.7	Sep 28 at hr 7	2.3	WSW	24.3	Sep 29	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	5.8	0.0	1.9	Sep 28 at hr 15	8.4	NW	2.2	Sep 28	100.0	99.9
WSV (km/hr)	-	-	-	-	-	-	6.1	0.2	31.4	Sep 25 at hr 14	31.4	ESE	18.9	Sep 21	99.9	99.9
WDV (sector)	-	-	-	-	-	-	196 (SSW)	-	-	-	-	-	-	-	99.9	99.9

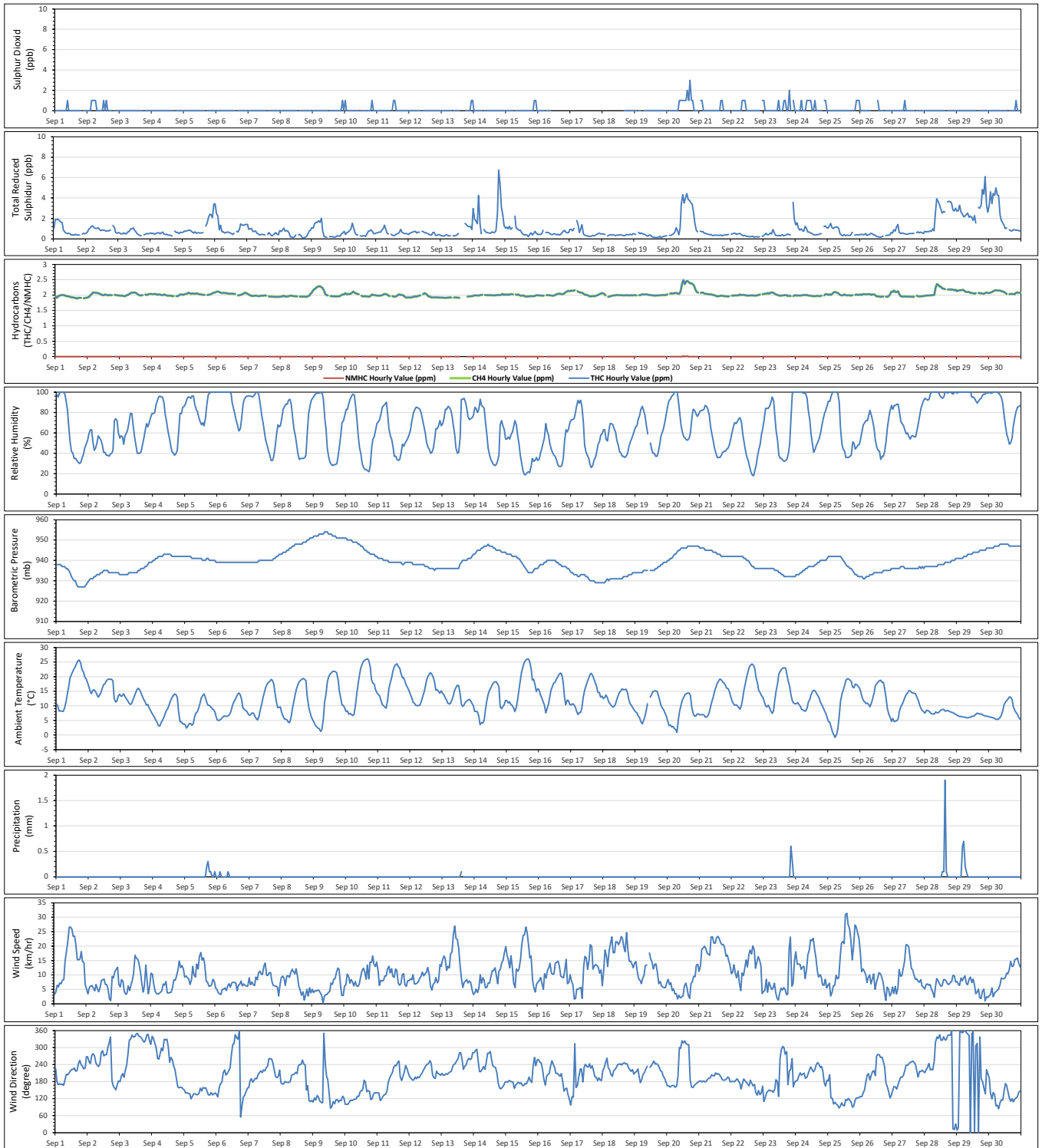
1- Date/ Time given is the first minimum and maximum value that was recorded

\* 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 Sep 2023 - 986-C Station



## 842-B Station

### Equipment Operation Summary

Parameter	Equipment Operational Summary
<b>SO2</b>  Thermo 43iQTL #1200736629	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 6.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>TRS</b>  Thermo 43iQTL #1200736630  TRS Convertor CD Nova CDN-101 #583	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 6.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>THC/CH4/NMHC</b>  Thermo 55i #1314057759  H2 Generator HG300 #190567058	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 6.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>RH</b>  Rotronic HC2-S3 #20370767	<ul style="list-style-type: none"> <li>• The RH probe was checked on September 6. The probe passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>AT</b>  Rotronic HC2-S3 #20370767	<ul style="list-style-type: none"> <li>• The AT probe was checked on September 16. The probe passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>BP</b>  MetOne 092 #Y23362	<ul style="list-style-type: none"> <li>• The BP sensor was checked on September 6. The sensor passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>ST</b>  COMET #20790297	<ul style="list-style-type: none"> <li>• No operational issues were identified this month.</li> </ul>

Parameter	Equipment Operational Summary
<p><b>Precipitation</b></p> <p>RM Young 52202 #TB 15878</p>	<ul style="list-style-type: none"> <li>• The precipitation gauge was checked on September 6. The sensor passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>
<p><b>WS/ WD</b></p> <p>RM Young 05305AQ #174802</p>	<ul style="list-style-type: none"> <li>• Wind direction data contained in this report represents where the wind is coming from.</li> <li>• The annual wind system calibration was completed on August 3, 2023.</li> <li>• The anemometer sensors were check on September 6. Both the wind speed sensor and wind direction sensor passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>

### Monitored Data Summary for 842-B Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	2	Sep 23 at hr 19	18	SW	0.4	Sep 20	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.71	0.26	3.72	Sep 28 at hr 10	4.7	NNW	1.73	Sep 28	100.0	95.1
THC (ppm)	-	-	-	-	-	-	2.04	1.93	2.55	Sep 9 at hr 6	1.5	E	2.20	Sep 20	100.0	95.1
CH4 (ppm)	-	-	-	-	-	-	2.04	1.93	2.55	Sep 9 at hr 6	1.5	E	2.14	Sep 20	100.0	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.24	Sep 20 at hr 17	0.1	WNW	0.06	Sep 20	100.0	95.1
RH (%)	-	-	-	-	-	-	67.6	20	100	Sep 1 at hr 0	0.2	ESE	98.1	Sep 28	100.0	100.0
BP (millibar)	-	-	-	-	-	-	938	926	953	Sep 9 at hr 8	2.1	S	951	Sep 9	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	13.0	-0.6	28.5	Sep 15 at hr 14	20.3	S	18.5	Sep 11	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.3	21.3	23.7	Sep 1 at hr 9	16.6	SSW	22.7	Sep 2	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	8.1	0.0	1.7	Sep 28 at hr 15	5.2	NNW	3.3	Sep 28	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	4.7	0.1	27.7	Sep 13 at hr 10	27.7	WSW	16.0	Sep 21	100.0	100.0
WDV (sector)	-	-	-	-	-	-	201 (SSW)	-	-	-	-	-	-	-	100.0	100.0

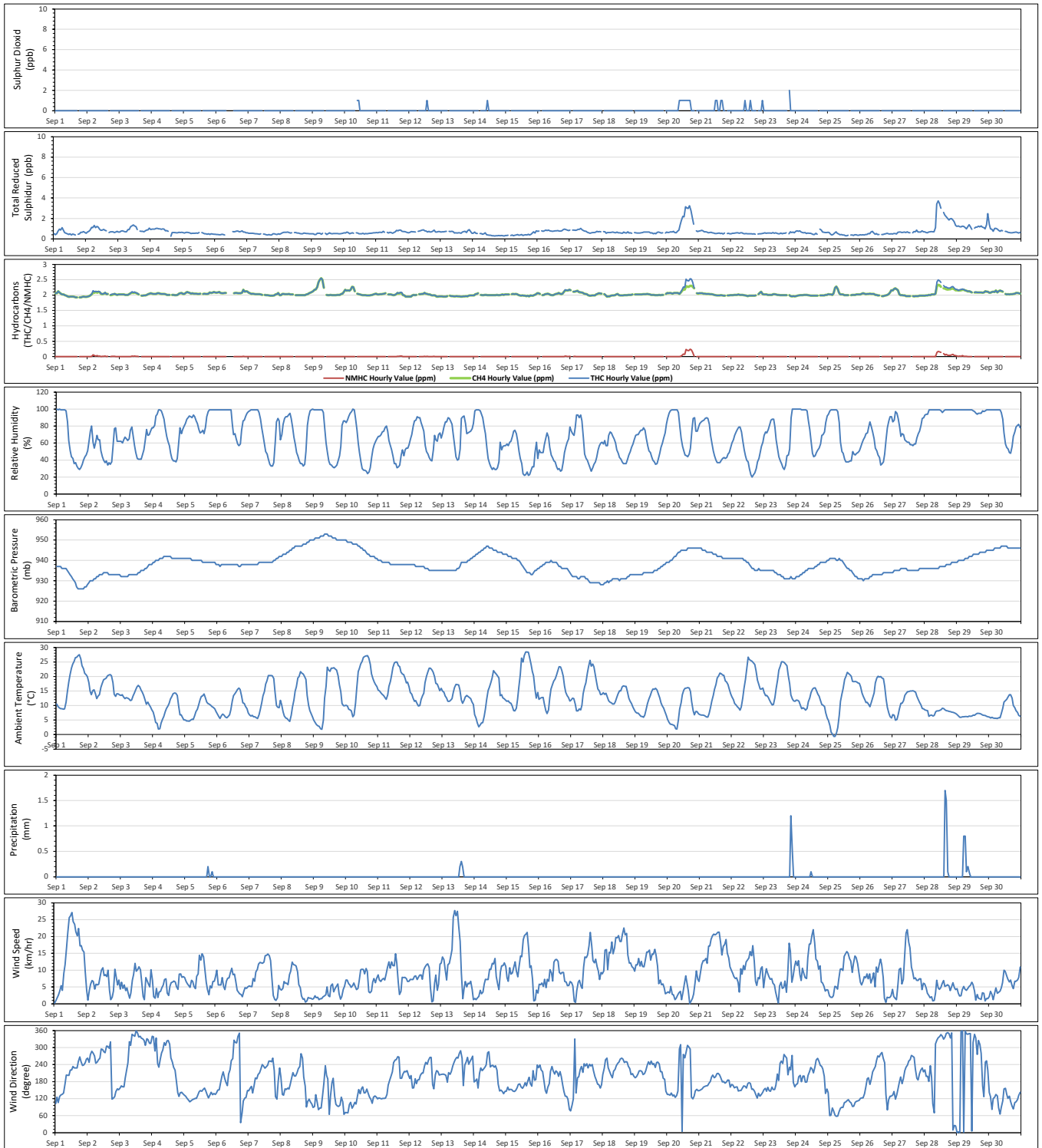
1- Date/ Time given is the first minimum and maximum value that was recorded

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

### 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 Sep 2023 - 842-B Station



## Reno-B Station

### Equipment Operation Summary

Parameter	Equipment Operational Summary
<b>SO2</b>  Thermo 43iQTL #12101910505	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 12.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>TRS</b>  Thermo 43iQTL #12101910504  <b>TRS Convertor</b> CD Nova CDN-101 #590	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 12.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>THC/CH4/NMHC</b>  Thermo 55i #12101910497  H2 Generator HG300 #210467069	<ul style="list-style-type: none"> <li>• Isolated and sporadic bad injections were noticed, starting September 5. One-minute data were reviewed and discarded if data quality was affected by the injection issues. Hourly data were re-calculated and validated using the post-validated 1-minute data results. Hourly data would be discarded if less than 75% of valid data in an hour was collected. No hourly data were discarded as a result.</li> <li>• The N2 gas cylinder was replaced on September 6.</li> <li>• The analyzer was shut down after a successful shut-down calibration to allow the installation of a parallel Thermo 55i analyzer on September 12. The Thermo 55i analyzer, s/n: 1193585652, was installed for testing/validation purposes. The resident analyzer, s/n: 12101910497, remains the primary data source. A successful post-repair calibration was completed on September 13. Twenty-two hours of downtime were recorded due to this event.</li> <li>• Maintenance was completed on the H2 generator and the zero-span system on September 12.</li> </ul>
<b>RH</b>  Rotronic HC2-S3 #20467597	<ul style="list-style-type: none"> <li>• The RH probe was checked on September 13. The probe passed the check requirements.</li> <li>• Due to datalogger polling errors, three hours of downtime were recorded as the hourly data completeness requirement did not meet.</li> </ul>
<b>BP</b>  MetOne 092 #A17940	<ul style="list-style-type: none"> <li>• The BP sensor was checked on September 13. The sensor passed the check requirements.</li> <li>• Due to datalogger polling errors, three hours of downtime were recorded as the hourly data completeness requirement did not meet.</li> </ul>



Parameter	Equipment Operational Summary
<b>AT</b>  Rotronic HC2-S3 #20467597	<ul style="list-style-type: none"> <li>• The AT probe was checked on September 13. The probe passed the check requirements.</li> <li>• Due to datalogger polling errors, three hours of downtime were recorded as the hourly data completeness requirement did not meet.</li> </ul>
<b>ST</b>  COMET #NA	<ul style="list-style-type: none"> <li>• Due to datalogger polling errors, one hour of downtime was recorded as the hourly data completeness requirement did not meet.</li> </ul>
<b>Precipitation</b>  RM Young 52202 #TB 15877	<ul style="list-style-type: none"> <li>• The precipitation gauge was checked and tested on September 13. The unit passed the check requirements.</li> <li>• Due to datalogger polling errors, two hours of downtime were recorded as the hourly data completeness requirement did not meet.</li> </ul>
<b>WS/ WD</b>  RM Young 05305AQ #174795	<ul style="list-style-type: none"> <li>• Wind direction data contained in this report represents where the wind is coming from.</li> <li>• The annual wind system calibration was completed on August 1, 2023.</li> <li>• The anemometer sensors were check on September 13. The wind sensors passed the check requirements.</li> <li>• Due to datalogger polling errors, three hours of downtime were recorded as the hourly data completeness requirement did not meet.</li> </ul>

**Monitored Data Summary for Reno-B Station**

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	2	Sep 25 at hr 12	29.5	ESE	0.3	Sep 16	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.56	0.24	2.13	Sep 28 at hr 16	9.9	N	1.47	Sep 28	100.0	95.1
THC (ppm)	-	-	-	-	-	-	2.02	1.91	3.33	Sep 9 at hr 2	2.3	SE	2.29	Sep 9	96.9	92.1
CH4 (ppm)	-	-	-	-	-	-	2.02	1.91	3.33	Sep 9 at hr 2	2.3	SE	2.29	Sep 9	96.9	92.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.04	Sep 26 at hr 21	2.7	ESE	0.00	Sep 26	96.9	92.1
RH (%)	-	-	-	-	-	-	65.0	19	100	Sep 5 at hr 22	8	SE	94.2	Sep 29	99.6	99.6
BP (millibar)	-	-	-	-	-	-	938	926	952	Sep 9 at hr 6	0.2	N	951	Sep 9	99.6	99.6
Ext. Temp. (°C)	-	-	-	-	-	-	12.3	2.6	26.0	Sep 15 at hr 15	23.5	S	17.9	Sep 11	99.6	99.6
Stn. Temp. (°C)	-	-	-	-	-	-	23.1	21.2	24.3	Sep 12 at hr 3	6.4	S	23.7	Sep 27	99.9	99.9
Precipitation (mm)*	-	-	-	-	-	-	1.9	0.0	0.6	Sep 3 at hr 20	10.6	NNW	0.8	Sep 3	99.7	99.7
WSV (km/hr)	-	-	-	-	-	-	6.4	0.2	41.3	Sep 13 at hr 11	41.3	W	22.3	Sep 18	99.6	99.6
WDV (sector)	-	-	-	-	-	-	197 (SSW)	-	-	-	-	-	-	-	99.6	99.6

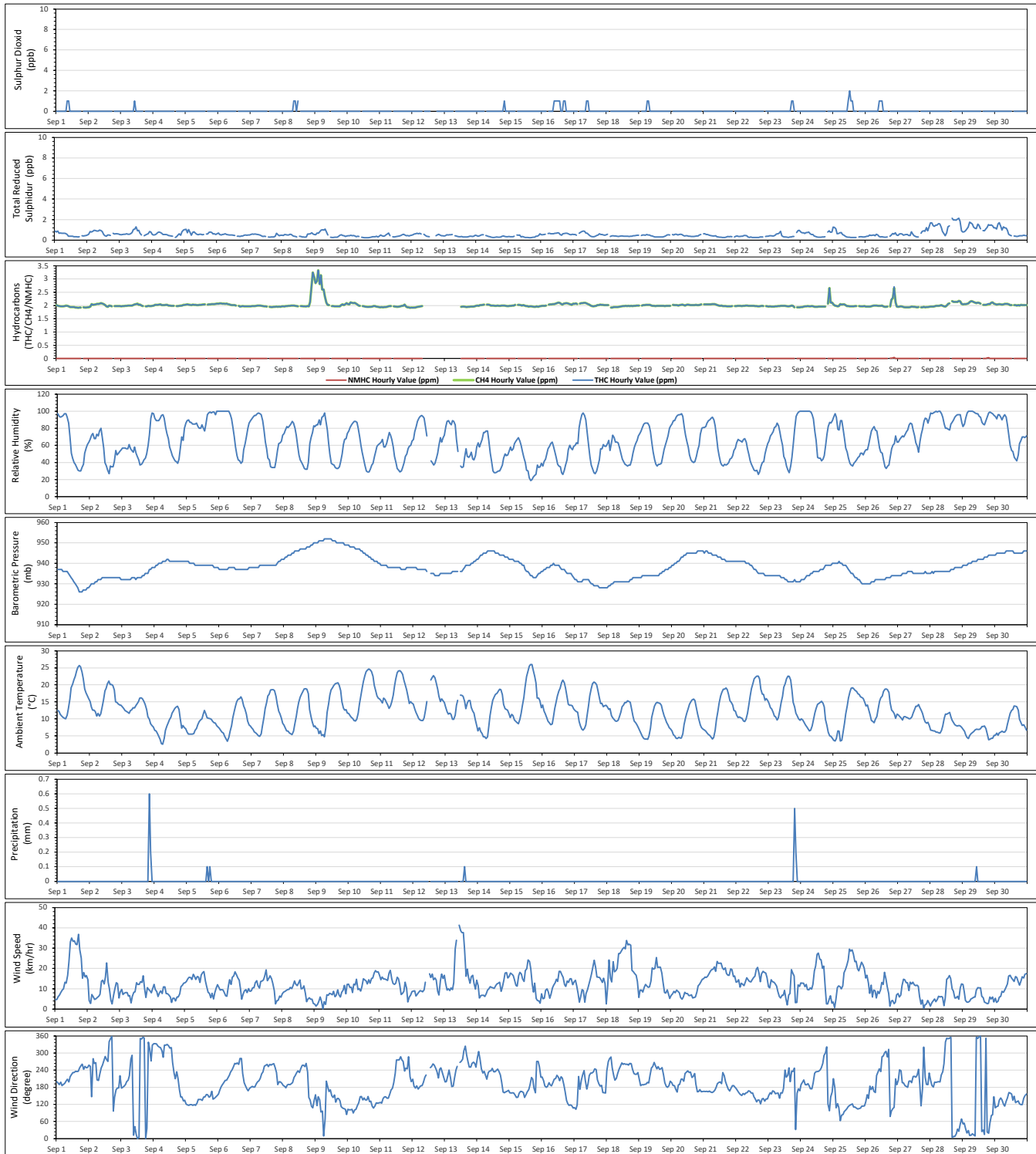
1- Date/ Time given is the first minimum and maximum value that was recorded

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

**Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances**

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

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



Equipment Operation Summary

Parameter	Equipment Operational Summary
<b>SO2</b>  Thermo 43i #1034746225	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 7.</li> <li>• No operational issues were identified.</li> </ul>
<b>H2S</b>  Thermo 450i #1308857354	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 7.</li> <li>• No operational issues were identified.</li> </ul>
<b>TRS</b>  Thermo 450i #1034746224  TRS Convertor CD Nova CDN-101 #506	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 7.</li> <li>• No operational issues were identified.</li> </ul>
<b>THC/CH4/NMHC</b>  Thermo 55i #1034745845  H2 Generator HG300 #211067076	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 7.</li> <li>• No operational issues were identified.</li> </ul>
<b>RH</b>  Rotronic HC2-S3 #20558318	<ul style="list-style-type: none"> <li>• The RH sensor was checked on September 7. The sensor passed the check requirements.</li> <li>• No operational issues were identified.</li> </ul>
<b>BP</b>  MetOne 092 #B19577	<ul style="list-style-type: none"> <li>• The BP sensor was checked on September 7. The sensor passed the check requirements.</li> <li>• No operational issues were identified.</li> </ul>
<b>AT</b>  Rotronic HC2-S3 #20558318	<ul style="list-style-type: none"> <li>• The AT sensor was checked on September 7. The sensor passed the check requirements.</li> <li>• No operational issues were identified.</li> </ul>

Parameter	Equipment Operational Summary
<b>ST</b>  Canadian Natural #NA	<ul style="list-style-type: none"> <li>• No operational issues were identified.</li> </ul>
<b>WS/ WD</b>  RM Young 05305VK #129612	<ul style="list-style-type: none"> <li>• Wind direction data contained in this report represents where the wind is coming from.</li> <li>• The annual wind system calibration was completed on August 3, 2023.</li> <li>• The anemometer sensors were checked on September 7. The sensors passed the check requirements.</li> <li>• No operational issues were identified.</li> </ul>

**Monitored Data Summary for Peace River Complex (PRC) Station**

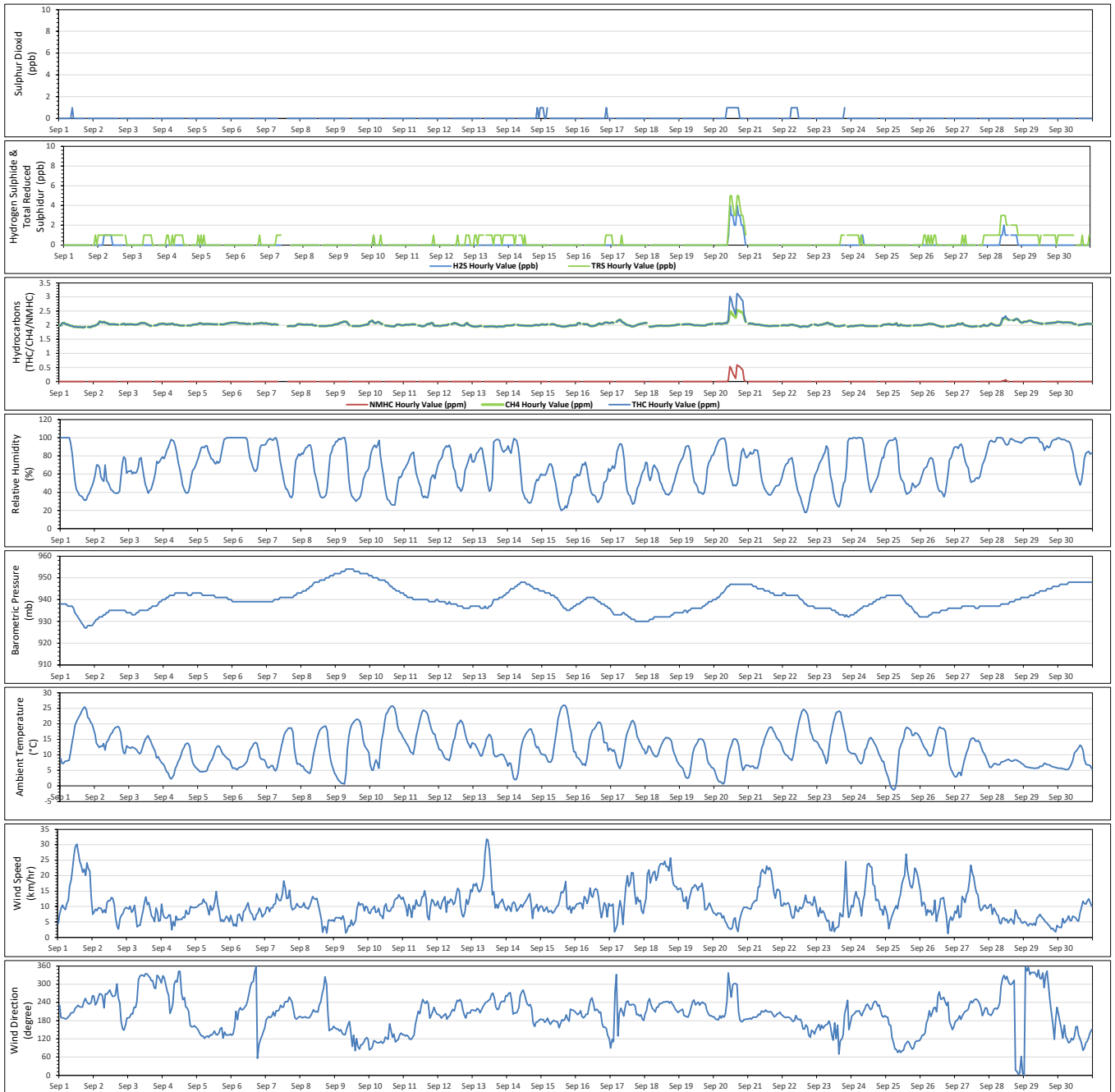
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	Sep 1 at hr 9	18.6	SSW	0.4	Sep 20	100.0	95.0
H2S (ppb)	10	3	-	0	0	-	0.1	0	4	Sep 20 at hr 11	2.9	WNW	1.0	Sep 20	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.3	0	5	Sep 20 at hr 11	2.9	WNW	2.0	Sep 20	100.0	95.0
THC (ppm)	-	-	-	-	-	-	2.03	1.92	3.13	Sep 20 at hr 16	3.2	WNW	2.44	Sep 20	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	2.03	1.92	2.54	Sep 20 at hr 16	3.2	WNW	2.25	Sep 20	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.01	0.00	0.59	Sep 20 at hr 16	3.2	WNW	0.19	Sep 20	100.0	95.0
RH (%)	-	-	-	-	-	-	67.5	18	100	Sep 1 at hr 0	4.5	SW	96.5	Sep 28	100.0	100.0
BP (millibar)	-	-	-	-	-	-	940	927	954	Sep 9 at hr 7	5.6	SE	953	Sep 9	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	11.8	-1.3	26.0	Sep 15 at hr 15	14.5	S	17.2	Sep 11	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.3	21.2	26.6	Sep 7 at hr 12	14.1	SW	24.2	Sep 21	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	6.9	1.3	31.8	Sep 13 at hr 10	31.8	WSW	20.1	Sep 18	100.0	100.0
WDV (sector)	-	-	-	-	-	-	204 (SSW)	-	-	-	-	-	-	-	100.0	100.0

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 Sep 2023 - Peace River Complex (PRC) Station



Equipment Operation Summary

Parameter	Equipment Operational Summary
<p><b>SO2</b></p> <p>Teledyne T100 #722</p>	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 14.</li> <li>• The HVAC unit failed due to the compressor failure on September 10. Due to this issue, the station temperatures rose above the EPA designation operation temperature ranges of 20°C - 30 °C between September 10 and September 12 and between September 15 and September 18. Data quality collected during this period could have been affected by the issue and therefore were discarded. One hundred and ten hours of downtime were recorded in September as a result.</li> </ul>
<p><b>TRS</b></p> <p>Teledyne T100U #132</p> <p>TRS Convertor CD Nova CDN-101 #576</p>	<ul style="list-style-type: none"> <li>• The analyzer failed due to a firmware issue on September 2. The analyzer was reset following by a repeat zero-span check on September 3. Eleven hours of downtime were recorded due to this event.</li> <li>• A successful monthly calibration was performed on September 14.</li> <li>• The HVAC unit failed due to the compressor failure on September 10. Due to this issue, the station temperatures rose above the EPA designation operation temperature ranges of 15°C - 35 °C between September 10 and September 12 and between September 15 and September 18. Data quality collected during this period could have been affected by the issue and therefore were discarded. One hundred and ten hours of downtime were recorded in September as a result.</li> </ul>
<p><b>NOx/NO/NO2</b></p> <p>API 200E #594</p>	<ul style="list-style-type: none"> <li>• The analyzer failed the daily span check on September 3, but the check results improved and passed the check requirements on September 4 and onwards. As the analyzer recovered spontaneously, no further action was required.</li> <li>• The analyzer failed the daily span check on September 13. It was likely due to unstable station temperatures, which affected the zero-span system. A successful monthly calibration was performed on September 14. As the analyzer passed the monthly calibration check requirements, data collected on September 13 were considered valid.</li> <li>• The HVAC unit failed due to the compressor failure on September 10. Due to this issue, the station temperatures rose above the EPA designation operation temperature ranges of 15°C - 35 °C between September 10 and September 12 and between September 15 and September 18. Data quality collected during this period could have been affected by the issue and therefore were discarded. One hundred and ten hours of downtime were recorded in September as a result.</li> </ul>



Parameter	Equipment Operational Summary
<b>O3</b>  API 400A #445	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 14.</li> <li>• The HVAC unit failed due to the compressor failure on September 10. Due to this issue, the station temperatures rose above the EPA designation operation temperature ranges of 20°C - 30 °C between September 10 and September 12 and between September 15 and September 18. Data quality collected during this period could have been affected by the issue and therefore were discarded. One hundred and ten hours of downtime were recorded in September as a result.</li> </ul>
<b>THC/CH4/NMHC</b>  Thermo 55i #1191032505  H2 Generator AMA HG300 #190567059	<ul style="list-style-type: none"> <li>• A successful monthly calibration was performed on September 14.</li> <li>• The HVAC unit failed due to the compressor failure on September 10. Due to this issue, the station temperatures rose above the EPA designation operation temperature ranges of 15°C - 35 °C between September 10 and September 12 and between September 15 and September 18. Data quality collected during this period could have been affected by the issue and therefore were discarded. One hundred and ten hours of downtime were recorded in September as a result.</li> </ul>
<b>PM2.5</b>  Teledyne T640 #3189	<ul style="list-style-type: none"> <li>• A successful monthly audit was performed on September 14.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>RH</b>  Vaisala HMP155 #N2910506	<ul style="list-style-type: none"> <li>• The RH probe was checked on September 14. The Probe passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>BP</b>  MetOne 092 #A2397	<ul style="list-style-type: none"> <li>• The BP sensor was checked on September 14. The sensor passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>AT</b>  Vaisala HMP155 #N2910506	<ul style="list-style-type: none"> <li>• The AT prober was checked on September 14. The probe passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>
<b>ST</b>  COMET #NA	<ul style="list-style-type: none"> <li>• No operational issues were identified this month.</li> </ul>

Parameter	Equipment Operational Summary
<p><b>WS/ WD</b></p> <p>RM Young 05305AQ #174801</p>	<ul style="list-style-type: none"> <li>• Wind direction data contained in this report represents where the wind is coming from.</li> <li>• The last annual wind system calibration was completed on August 2, 2023.</li> <li>• The anemometer sensors were check on September 14. Both the wind speed sensor and wind direction sensor passed the check requirements.</li> <li>• No operational issues were identified this month.</li> </ul>

**Monitored Data Summary for AQHI - Grimshaw Station**

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	2	Sep 23 at hr 18	16.3	WSW	0.4	Sep 23	84.7	80.4
TRS (ppb)	-	-	-	-	-	-	0.41	0.00	6.72	Sep 30 at hr 3	1.2	SE	1.79	Sep 30	83.2	78.9
NOx (ppb)	-	-	-	-	-	-	3.2	0	40	Sep 20 at hr 7	1	NW	8.5	Sep 20	84.7	80.1
NO (ppb)	-	-	-	-	-	-	0.5	0	23	Sep 20 at hr 7	1	NW	2.7	Sep 20	84.7	80.1
NO2 (ppb)	159	-	-	0	-	-	2.6	0	20	Sep 9 at hr 20	2.1	N	5.7	Sep 20	84.7	80.1
O3 (ppb)	76	-	-	0	-	-	22.0	1.4	50.8	Sep 10 at hr 14	10.8	SSE	29.4	Sep 2	84.7	80.3
THC (ppm)	-	-	-	-	-	-	2.07	1.93	3.19	Sep 25 at hr 2	5.8	N	2.18	Sep 29	84.7	80.5
CH4 (ppm)	-	-	-	-	-	-	2.05	1.93	2.95	Sep 25 at hr 2	5.8	N	2.13	Sep 29	84.7	80.5
NMHC (ppm)	-	-	-	-	-	-	0.02	0.00	0.24	Sep 25 at hr 2	5.8	N	0.07	Sep 28	84.7	80.5
PM2.5 (µg/m3)	80	29	-	168	18	-	59.9	2	469	Sep 2 at hr 7	12.1	NW	295.4	Sep 2	100.0	99.7
RH (%)	-	-	-	-	-	-	61.7	18	100	Sep 6 at hr 0	2.9	SE	92.7	Sep 28	100.0	100.0
BP (millibar)	-	-	-	-	-	-	940	927	954	Sep 9 at hr 6	2.2	N	953	Sep 9	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	12.5	2.8	26.8	Sep 1 at hr 16	22.1	WSW	18.7	Sep 1	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.1	18.3	42.4	Sep 11 at hr 17	12.9	WSW	36.2	Sep 11	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	8.1	0.1	27.3	Sep 13 at hr 10	27.3	W	15.2	Sep 18	100.0	100.0
WDV (sector)	-	-	-	-	-	-	245 (WSW)	-	-	-	-	-	-	-	100.0	100.0

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

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

The following exceedances of AAAQOs were observed at the AQHI - Grimshaw Station.

Date	Time (MST)	Parameter	Average Period	AAAOs / AAAQGs	Concentration	Wind speed	Wind Direction	Reference #
Sep 1	23	PM2.5	1-Hour	80 µg/m3	173 µg/m3	13.3 km/hr	271° (W)	418931
Sep 1	-	PM2.5	24-Hour	29 µg/m3	44 µg/m3	14.6 km/hr	251° (WSW)	418931
Sep 2	0	PM2.5	1-Hour	80 µg/m3	269 µg/m3	9.0 km/hr	288° (WNW)	418931
Sep 2	1	PM2.5	1-Hour	80 µg/m3	340 µg/m3	10.9 km/hr	305° (WNW)	418931
Sep 2	2	PM2.5	1-Hour	80 µg/m3	350 µg/m3	9.8 km/hr	315° (NW)	418931
Sep 2	3	PM2.5	1-Hour	80 µg/m3	396 µg/m3	8.6 km/hr	284° (WNW)	418931
Sep 2	4	PM2.5	1-Hour	80 µg/m3	424 µg/m3	9.8 km/hr	298° (WNW)	418931
Sep 2	5	PM2.5	1-Hour	80 µg/m3	421 µg/m3	11.1 km/hr	300° (WNW)	418931
Sep 2	6	PM2.5	1-Hour	80 µg/m3	434 µg/m3	11.9 km/hr	308° (NW)	418931
Sep 2	7	PM2.5	1-Hour	80 µg/m3	469 µg/m3	12.1 km/hr	310° (NW)	418931
Sep 2	8	PM2.5	1-Hour	80 µg/m3	419 µg/m3	11.1 km/hr	309° (NW)	418931
Sep 2	9	PM2.5	1-Hour	80 µg/m3	463 µg/m3	11.1 km/hr	302° (WNW)	418931
Sep 2	10	PM2.5	1-Hour	80 µg/m3	453 µg/m3	8.9 km/hr	292° (WNW)	418931
Sep 2	11	PM2.5	1-Hour	80 µg/m3	382 µg/m3	9.8 km/hr	282° (W)	418931
Sep 2	12	PM2.5	1-Hour	80 µg/m3	312 µg/m3	11.4 km/hr	310° (NW)	418931
Sep 2	13	PM2.5	1-Hour	80 µg/m3	348 µg/m3	7.8 km/hr	333° (NNW)	418931
Sep 2	14	PM2.5	1-Hour	80 µg/m3	298 µg/m3	6.9 km/hr	317° (NW)	418931
Sep 2	15	PM2.5	1-Hour	80 µg/m3	228 µg/m3	8.9 km/hr	318° (NW)	418931
Sep 2	16	PM2.5	1-Hour	80 µg/m3	157 µg/m3	6.9 km/hr	308° (NW)	418931
Sep 2	17	PM2.5	1-Hour	80 µg/m3	127 µg/m3	3.7 km/hr	297° (WNW)	418931
Sep 2	18	PM2.5	1-Hour	80 µg/m3	129 µg/m3	2.7 km/hr	162° (SSE)	418931
Sep 2	19	PM2.5	1-Hour	80 µg/m3	123 µg/m3	2.8 km/hr	152° (SSE)	418931
Sep 2	20	PM2.5	1-Hour	80 µg/m3	132 µg/m3	3.4 km/hr	186° (S)	418931
Sep 2	21	PM2.5	1-Hour	80 µg/m3	135 µg/m3	3.9 km/hr	203° (SSW)	418931
Sep 2	22	PM2.5	1-Hour	80 µg/m3	135 µg/m3	3.3 km/hr	221° (SW)	418931
Sep 2	23	PM2.5	1-Hour	80 µg/m3	146 µg/m3	1.9 km/hr	210° (SSW)	418931
Sep 2	-	PM2.5	24-Hour	29 µg/m3	295 µg/m3	7.8 km/hr	286° (WNW)	418931
Sep 3	0	PM2.5	1-Hour	80 µg/m3	151 µg/m3	4.8 km/hr	262° (W)	418931
Sep 3	1	PM2.5	1-Hour	80 µg/m3	157 µg/m3	3.9 km/hr	237° (SW)	418931
Sep 3	2	PM2.5	1-Hour	80 µg/m3	116 µg/m3	5.7 km/hr	224° (SW)	418931

Date	Time (MST)	Parameter	Average Period	AAQOs / AAQGs	Concentration	Wind speed	Wind Direction	Reference #
Sep 3	3	PM2.5	1-Hour	80 µg/m3	90 µg/m3	6.8 km/hr	232° (SW)	418931
Sep 3	4	PM2.5	1-Hour	80 µg/m3	101 µg/m3	10.3 km/hr	270° (W)	418931
Sep 3	5	PM2.5	1-Hour	80 µg/m3	116 µg/m3	10.3 km/hr	307° (NW)	418931
Sep 3	6	PM2.5	1-Hour	80 µg/m3	168 µg/m3	7.8 km/hr	339° (NNW)	418931
Sep 3	7	PM2.5	1-Hour	80 µg/m3	345 µg/m3	11.1 km/hr	6° (N)	418931
Sep 3	8	PM2.5	1-Hour	80 µg/m3	395 µg/m3	6.4 km/hr	13° (NNE)	418931
Sep 3	9	PM2.5	1-Hour	80 µg/m3	361 µg/m3	6.4 km/hr	25° (NNE)	418931
Sep 3	10	PM2.5	1-Hour	80 µg/m3	242 µg/m3	10.8 km/hr	19° (NNE)	418931
Sep 3	11	PM2.5	1-Hour	80 µg/m3	163 µg/m3	12.7 km/hr	14° (NNE)	418931
Sep 3	12	PM2.5	1-Hour	80 µg/m3	154 µg/m3	11.3 km/hr	5° (N)	418931
Sep 3	13	PM2.5	1-Hour	80 µg/m3	135 µg/m3	11.3 km/hr	351° (N)	418931
Sep 3	-	PM2.5	24-Hour	29 µg/m3	130 µg/m3	8.8 km/hr	336° (NNW)	418931
Sep 5	13	PM2.5	1-Hour	80 µg/m3	83 µg/m3	12.8 km/hr	158° (SSE)	419220
Sep 5	14	PM2.5	1-Hour	80 µg/m3	84 µg/m3	10.6 km/hr	181° (S)	419220
Sep 5	15	PM2.5	1-Hour	80 µg/m3	91 µg/m3	12.5 km/hr	176° (S)	419220
Sep 5	16	PM2.5	1-Hour	80 µg/m3	89 µg/m3	14.7 km/hr	155° (SSE)	419220
Sep 5	17	PM2.5	1-Hour	80 µg/m3	90 µg/m3	11.6 km/hr	139° (SE)	419220
Sep 5	18	PM2.5	1-Hour	80 µg/m3	91 µg/m3	9.4 km/hr	150° (SSE)	419220
Sep 5	19	PM2.5	1-Hour	80 µg/m3	90 µg/m3	6.5 km/hr	147° (SE)	419220
Sep 5	20	PM2.5	1-Hour	80 µg/m3	92 µg/m3	2.9 km/hr	133° (SE)	419220
Sep 5	21	PM2.5	1-Hour	80 µg/m3	93 µg/m3	2.1 km/hr	122° (ESE)	419220
Sep 5	22	PM2.5	1-Hour	80 µg/m3	93 µg/m3	1.7 km/hr	85° (E)	419220
Sep 5	23	PM2.5	1-Hour	80 µg/m3	83 µg/m3	1.5 km/hr	37° (NE)	419220
Sep 5	-	PM2.5	24-Hour	29 µg/m3	61 µg/m3	6.8 km/hr	112° (ESE)	419220
Sep 6	0	PM2.5	1-Hour	80 µg/m3	81 µg/m3	2.9 km/hr	146° (SE)	419220
Sep 6	10	PM2.5	1-Hour	80 µg/m3	93 µg/m3	10.2 km/hr	266° (W)	419220
Sep 6	11	PM2.5	1-Hour	80 µg/m3	90 µg/m3	12.0 km/hr	280° (W)	419220
Sep 6	12	PM2.5	1-Hour	80 µg/m3	95 µg/m3	14.3 km/hr	286° (WNV)	419220
Sep 6	13	PM2.5	1-Hour	80 µg/m3	89 µg/m3	13.6 km/hr	285° (WNV)	419220
Sep 6	14	PM2.5	1-Hour	80 µg/m3	83 µg/m3	11.5 km/hr	292° (WNV)	419220
Sep 6	15	PM2.5	1-Hour	80 µg/m3	82 µg/m3	9.5 km/hr	308° (NW)	419220
Sep 6	18	PM2.5	1-Hour	80 µg/m3	95 µg/m3	5.0 km/hr	40° (NE)	419220
Sep 6	19	PM2.5	1-Hour	80 µg/m3	126 µg/m3	5.4 km/hr	58° (ENE)	419220

Date	Time (MST)	Parameter	Average Period	AAQOs / AAQGs	Concentration	Wind speed	Wind Direction	Reference #
Sep 6	20	PM2.5	1-Hour	80 µg/m3	135 µg/m3	4.2 km/hr	45° (NE)	419220
Sep 6	21	PM2.5	1-Hour	80 µg/m3	140 µg/m3	4.0 km/hr	42° (NE)	419220
Sep 6	22	PM2.5	1-Hour	80 µg/m3	132 µg/m3	2.0 km/hr	19° (NNE)	419220
Sep 6	23	PM2.5	1-Hour	80 µg/m3	131 µg/m3	1.7 km/hr	335° (NNW)	419220
Sep 6	-	PM2.5	24-Hour	29 µg/m3	85 µg/m3	5.5 km/hr	276° (W)	419220
Sep 7	0	PM2.5	1-Hour	80 µg/m3	125 µg/m3	2.6 km/hr	268° (W)	419220
Sep 7	1	PM2.5	1-Hour	80 µg/m3	85 µg/m3	3.1 km/hr	233° (SW)	419220
Sep 7	-	PM2.5	24-Hour	29 µg/m3	34 µg/m3	8.1 km/hr	255° (WSW)	419220
Sep 9	-	PM2.5	24-Hour	29 µg/m3	31 µg/m3	3.9 km/hr	71° (ENE)	419220
Sep 11	12	PM2.5	1-Hour	80 µg/m3	122 µg/m3	11.9 km/hr	277° (W)	419626
Sep 11	13	PM2.5	1-Hour	80 µg/m3	315 µg/m3	14.6 km/hr	276° (W)	419626
Sep 11	14	PM2.5	1-Hour	80 µg/m3	308 µg/m3	8.5 km/hr	294° (WNW)	419626
Sep 11	15	PM2.5	1-Hour	80 µg/m3	290 µg/m3	9.1 km/hr	257° (WSW)	419626
Sep 11	16	PM2.5	1-Hour	80 µg/m3	204 µg/m3	12.6 km/hr	238° (SW)	419626
Sep 11	-	PM2.5	24-Hour	29 µg/m3	70 µg/m3	7.1 km/hr	221° (SW)	419626
Sep 12	5	PM2.5	1-Hour	80 µg/m3	109 µg/m3	5.1 km/hr	233° (SW)	419626
Sep 12	6	PM2.5	1-Hour	80 µg/m3	133 µg/m3	3.3 km/hr	253° (WSW)	419626
Sep 12	7	PM2.5	1-Hour	80 µg/m3	123 µg/m3	4.1 km/hr	198° (SSW)	419626
Sep 12	8	PM2.5	1-Hour	80 µg/m3	134 µg/m3	4.2 km/hr	243° (WSW)	419626
Sep 12	9	PM2.5	1-Hour	80 µg/m3	185 µg/m3	2.2 km/hr	224° (SW)	419626
Sep 12	10	PM2.5	1-Hour	80 µg/m3	288 µg/m3	6.7 km/hr	240° (WSW)	419626
Sep 12	11	PM2.5	1-Hour	80 µg/m3	220 µg/m3	9.9 km/hr	239° (WSW)	419626
Sep 12	12	PM2.5	1-Hour	80 µg/m3	162 µg/m3	13.7 km/hr	263° (W)	419626
Sep 12	13	PM2.5	1-Hour	80 µg/m3	159 µg/m3	12.3 km/hr	271° (W)	419626
Sep 12	14	PM2.5	1-Hour	80 µg/m3	126 µg/m3	11.1 km/hr	272° (W)	419626
Sep 12	15	PM2.5	1-Hour	80 µg/m3	103 µg/m3	7.0 km/hr	307° (NW)	419626
Sep 12	16	PM2.5	1-Hour	80 µg/m3	106 µg/m3	11.9 km/hr	259° (WSW)	419626
Sep 12	-	PM2.5	24-Hour	29 µg/m3	107 µg/m3	7.7 km/hr	246° (WSW)	419626
Sep 15	20	PM2.5	1-Hour	80 µg/m3	99 µg/m3	10.5 km/hr	288° (WNW)	419626
Sep 15	21	PM2.5	1-Hour	80 µg/m3	154 µg/m3	10.4 km/hr	280° (W)	419626
Sep 15	22	PM2.5	1-Hour	80 µg/m3	223 µg/m3	11.9 km/hr	287° (WNW)	419626
Sep 15	23	PM2.5	1-Hour	80 µg/m3	190 µg/m3	10.7 km/hr	306° (NW)	419626
Sep 15	-	PM2.5	24-Hour	29 µg/m3	49 µg/m3	9.1 km/hr	168° (SSE)	419626

Date	Time (MST)	Parameter	Average Period	AAQOs / AAQGs	Concentration	Wind speed	Wind Direction	Reference #
Sep 16	0	PM2.5	1-Hour	80 µg/m3	143 µg/m3	7.8 km/hr	307° (NW)	419626
Sep 16	4	PM2.5	1-Hour	80 µg/m3	86 µg/m3	8.6 km/hr	286° (WNW)	419626
Sep 16	5	PM2.5	1-Hour	80 µg/m3	92 µg/m3	8.7 km/hr	305° (WNW)	419626
Sep 16	6	PM2.5	1-Hour	80 µg/m3	89 µg/m3	8.5 km/hr	289° (WNW)	419626
Sep 16	8	PM2.5	1-Hour	80 µg/m3	86 µg/m3	4.1 km/hr	173° (S)	419626
Sep 16	9	PM2.5	1-Hour	80 µg/m3	87 µg/m3	7.9 km/hr	220° (SW)	419626
Sep 16	10	PM2.5	1-Hour	80 µg/m3	100 µg/m3	13.5 km/hr	251° (WSW)	419626
Sep 16	11	PM2.5	1-Hour	80 µg/m3	101 µg/m3	14.8 km/hr	248° (WSW)	419626
Sep 16	12	PM2.5	1-Hour	80 µg/m3	123 µg/m3	12.7 km/hr	219° (SW)	419626
Sep 16	13	PM2.5	1-Hour	80 µg/m3	117 µg/m3	14.8 km/hr	222° (SW)	419626
Sep 16	19	PM2.5	1-Hour	80 µg/m3	120 µg/m3	2.0 km/hr	178° (S)	419626
Sep 16	20	PM2.5	1-Hour	80 µg/m3	167 µg/m3	0.2 km/hr	358° (N)	419626
Sep 16	21	PM2.5	1-Hour	80 µg/m3	263 µg/m3	0.1 km/hr	205° (SSW)	419626
Sep 16	22	PM2.5	1-Hour	80 µg/m3	294 µg/m3	0.8 km/hr	56° (NE)	419626
Sep 16	23	PM2.5	1-Hour	80 µg/m3	334 µg/m3	5.7 km/hr	10° (N)	419626
Sep 16	-	PM2.5	24-Hour	29 µg/m3	117 µg/m3	7.8 km/hr	256° (WSW)	419626
Sep 17	0	PM2.5	1-Hour	80 µg/m3	336 µg/m3	4.3 km/hr	52° (NE)	419626
Sep 17	1	PM2.5	1-Hour	80 µg/m3	316 µg/m3	7.0 km/hr	73° (ENE)	419626
Sep 17	2	PM2.5	1-Hour	80 µg/m3	302 µg/m3	4.7 km/hr	316° (NNW)	419626
Sep 17	3	PM2.5	1-Hour	80 µg/m3	277 µg/m3	3.4 km/hr	337° (NNW)	419626
Sep 17	4	PM2.5	1-Hour	80 µg/m3	262 µg/m3	2.8 km/hr	273° (W)	419626
Sep 17	5	PM2.5	1-Hour	80 µg/m3	261 µg/m3	2.8 km/hr	283° (W)	419626
Sep 17	6	PM2.5	1-Hour	80 µg/m3	269 µg/m3	3.9 km/hr	252° (WSW)	419626
Sep 17	7	PM2.5	1-Hour	80 µg/m3	263 µg/m3	4.3 km/hr	173° (S)	419626
Sep 17	8	PM2.5	1-Hour	80 µg/m3	259 µg/m3	3.5 km/hr	210° (SSW)	419626
Sep 17	9	PM2.5	1-Hour	80 µg/m3	241 µg/m3	2.9 km/hr	198° (SSW)	419626
Sep 17	10	PM2.5	1-Hour	80 µg/m3	173 µg/m3	15.8 km/hr	261° (W)	419626
Sep 17	11	PM2.5	1-Hour	80 µg/m3	125 µg/m3	15.4 km/hr	263° (W)	419626
Sep 17	15	PM2.5	1-Hour	80 µg/m3	94 µg/m3	21.3 km/hr	244° (WSW)	419626
Sep 17	16	PM2.5	1-Hour	80 µg/m3	99 µg/m3	15.8 km/hr	237° (SW)	419626
Sep 17	17	PM2.5	1-Hour	80 µg/m3	94 µg/m3	13.2 km/hr	218° (SW)	419626
Sep 17	18	PM2.5	1-Hour	80 µg/m3	137 µg/m3	14.4 km/hr	239° (WSW)	419626
Sep 17	19	PM2.5	1-Hour	80 µg/m3	157 µg/m3	9.1 km/hr	213° (SSW)	419626

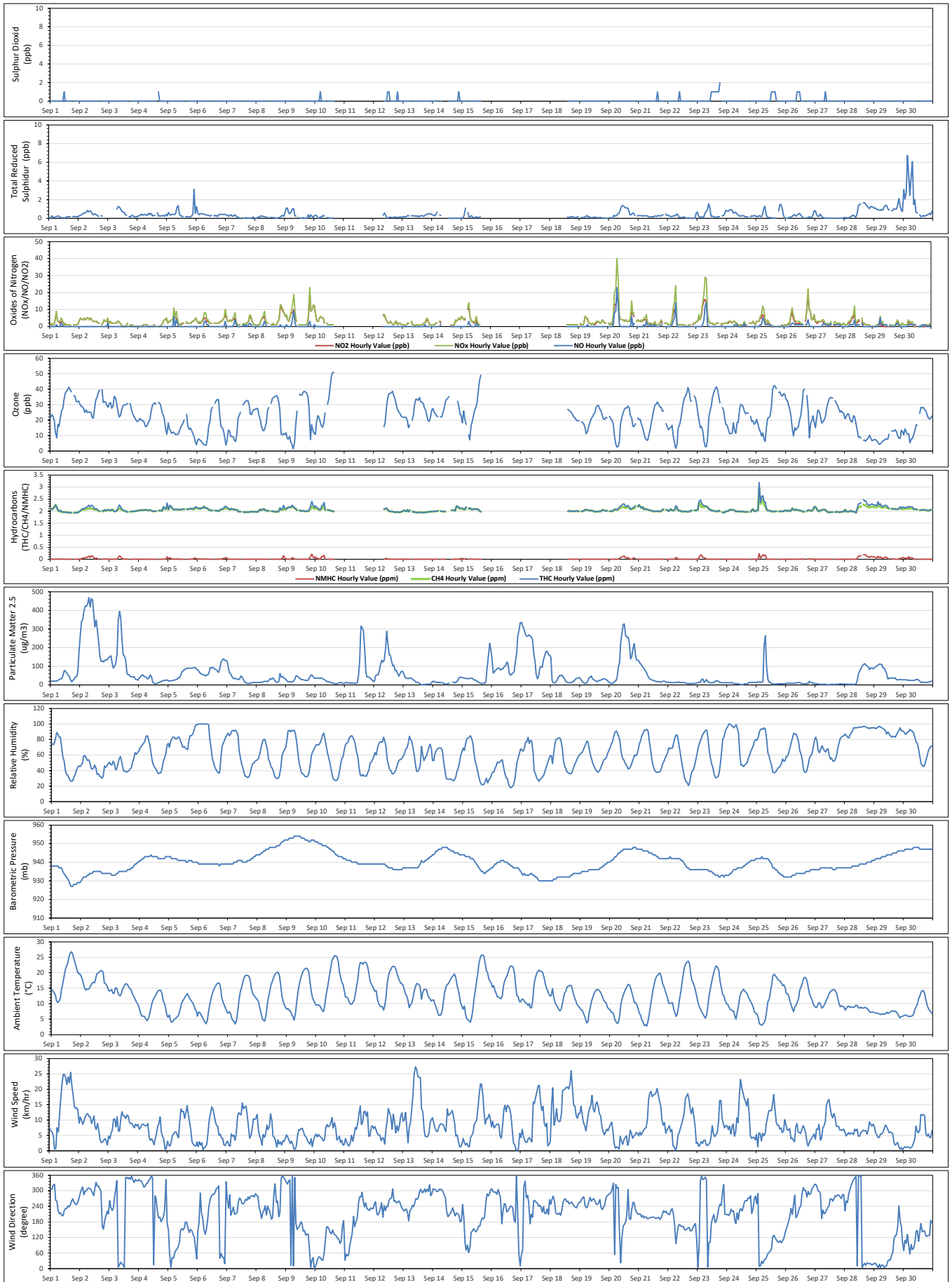
Date	Time (MST)	Parameter	Average Period	AAQOs / AAQGs	Concentration	Wind speed	Wind Direction	Reference #
Sep 17	20	PM2.5	1-Hour	80 µg/m3	180 µg/m3	7.9 km/hr	213° (SSW)	419626
Sep 17	21	PM2.5	1-Hour	80 µg/m3	181 µg/m3	9.0 km/hr	230° (SW)	419626
Sep 17	22	PM2.5	1-Hour	80 µg/m3	163 µg/m3	1.6 km/hr	209° (SSW)	419626
Sep 17	23	PM2.5	1-Hour	80 µg/m3	160 µg/m3	2.2 km/hr	266° (W)	419626
Sep 17	-	PM2.5	24-Hour	29 µg/m3	187 µg/m3	9.3 km/hr	243° (WSW)	419626
Sep 18	0	PM2.5	1-Hour	80 µg/m3	147 µg/m3	2.9 km/hr	248° (WSW)	419924
Sep 18	-	PM2.5	24-Hour	29 µg/m3	32 µg/m3	15.2 km/hr	245° (WSW)	419924
Sep 20	7	PM2.5	1-Hour	80 µg/m3	92 µg/m3	1.0 km/hr	313° (NW)	419924
Sep 20	8	PM2.5	1-Hour	80 µg/m3	121 µg/m3	0.6 km/hr	150° (SSE)	419924
Sep 20	9	PM2.5	1-Hour	80 µg/m3	230 µg/m3	4.7 km/hr	22° (NNE)	419924
Sep 20	10	PM2.5	1-Hour	80 µg/m3	280 µg/m3	3.0 km/hr	117° (ESE)	419924
Sep 20	11	PM2.5	1-Hour	80 µg/m3	324 µg/m3	2.1 km/hr	163° (SSE)	419924
Sep 20	12	PM2.5	1-Hour	80 µg/m3	328 µg/m3	3.7 km/hr	170° (SSE)	419924
Sep 20	13	PM2.5	1-Hour	80 µg/m3	265 µg/m3	4.3 km/hr	181° (S)	419924
Sep 20	14	PM2.5	1-Hour	80 µg/m3	257 µg/m3	4.9 km/hr	205° (SSW)	419924
Sep 20	15	PM2.5	1-Hour	80 µg/m3	257 µg/m3	1.8 km/hr	305° (WNW)	419924
Sep 20	16	PM2.5	1-Hour	80 µg/m3	230 µg/m3	2.9 km/hr	194° (SSW)	419924
Sep 20	17	PM2.5	1-Hour	80 µg/m3	140 µg/m3	6.7 km/hr	189° (S)	419924
Sep 20	18	PM2.5	1-Hour	80 µg/m3	151 µg/m3	5.8 km/hr	227° (SW)	419924
Sep 20	19	PM2.5	1-Hour	80 µg/m3	197 µg/m3	4.1 km/hr	256° (WSW)	419924
Sep 20	20	PM2.5	1-Hour	80 µg/m3	222 µg/m3	4.7 km/hr	253° (WSW)	419924
Sep 20	21	PM2.5	1-Hour	80 µg/m3	159 µg/m3	5.1 km/hr	228° (SW)	419924
Sep 20	22	PM2.5	1-Hour	80 µg/m3	133 µg/m3	6.0 km/hr	217° (SW)	419924
Sep 20	23	PM2.5	1-Hour	80 µg/m3	133 µg/m3	5.6 km/hr	211° (SSW)	419924
Sep 20	-	PM2.5	24-Hour	29 µg/m3	152 µg/m3	4.3 km/hr	243° (WSW)	419924
Sep 21	0	PM2.5	1-Hour	80 µg/m3	127 µg/m3	4.9 km/hr	210° (SSW)	419924
Sep 21	1	PM2.5	1-Hour	80 µg/m3	115 µg/m3	6.1 km/hr	211° (SSW)	419924
Sep 21	2	PM2.5	1-Hour	80 µg/m3	107 µg/m3	5.1 km/hr	199° (SSW)	419924
Sep 21	3	PM2.5	1-Hour	80 µg/m3	96 µg/m3	6.0 km/hr	205° (SSW)	419924
Sep 21	4	PM2.5	1-Hour	80 µg/m3	88 µg/m3	6.7 km/hr	195° (SSW)	419924
Sep 21	-	PM2.5	24-Hour	29 µg/m3	45 µg/m3	12.1 km/hr	202° (SSW)	419924
Sep 25	6	PM2.5	1-Hour	80 µg/m3	208 µg/m3	4.9 km/hr	33° (NNE)	420404
Sep 25	7	PM2.5	1-Hour	80 µg/m3	265 µg/m3	5.7 km/hr	35° (NE)	420404



Date	Time (MST)	Parameter	Average Period	AAQOs / AAQGs	Concentration	Wind speed	Wind Direction	Reference #
Sep 25	8	PM2.5	1-Hour	80 µg/m3	103 µg/m3	8.9 km/hr	45° (NE)	420404
Sep 25	-	PM2.5	24-Hour	29 µg/m3	33 µg/m3	8.6 km/hr	76° (ENE)	420404
Sep 28	13	PM2.5	1-Hour	80 µg/m3	87 µg/m3	5.8 km/hr	360° (N)	420404
Sep 28	14	PM2.5	1-Hour	80 µg/m3	101 µg/m3	6.3 km/hr	4° (N)	420404
Sep 28	15	PM2.5	1-Hour	80 µg/m3	109 µg/m3	6.7 km/hr	14° (NNE)	420404
Sep 28	16	PM2.5	1-Hour	80 µg/m3	114 µg/m3	6.5 km/hr	21° (NNE)	420404
Sep 28	17	PM2.5	1-Hour	80 µg/m3	107 µg/m3	6.6 km/hr	13° (NNE)	420404
Sep 28	18	PM2.5	1-Hour	80 µg/m3	103 µg/m3	5.4 km/hr	22° (NNE)	420404
Sep 28	19	PM2.5	1-Hour	80 µg/m3	97 µg/m3	6.6 km/hr	20° (NNE)	420404
Sep 28	20	PM2.5	1-Hour	80 µg/m3	82 µg/m3	9.4 km/hr	19° (NNE)	420404
Sep 28	21	PM2.5	1-Hour	80 µg/m3	92 µg/m3	8.7 km/hr	19° (NNE)	420404
Sep 28	22	PM2.5	1-Hour	80 µg/m3	91 µg/m3	8.0 km/hr	14° (NNE)	420404
Sep 28	23	PM2.5	1-Hour	80 µg/m3	87 µg/m3	8.7 km/hr	17° (NNE)	420404
Sep 28	-	PM2.5	24-Hour	29 µg/m3	53 µg/m3	6.4 km/hr	350° (N)	420404
Sep 29	0	PM2.5	1-Hour	80 µg/m3	93 µg/m3	7.8 km/hr	20° (NNE)	420404
Sep 29	1	PM2.5	1-Hour	80 µg/m3	96 µg/m3	5.9 km/hr	21° (NNE)	420404
Sep 29	2	PM2.5	1-Hour	80 µg/m3	102 µg/m3	5.3 km/hr	12° (NNE)	420404
Sep 29	3	PM2.5	1-Hour	80 µg/m3	106 µg/m3	4.4 km/hr	3° (N)	420404
Sep 29	4	PM2.5	1-Hour	80 µg/m3	112 µg/m3	4.3 km/hr	16° (NNE)	420404
Sep 29	5	PM2.5	1-Hour	80 µg/m3	111 µg/m3	5.5 km/hr	5° (N)	420404
Sep 29	6	PM2.5	1-Hour	80 µg/m3	110 µg/m3	5.5 km/hr	15° (NNE)	420404
Sep 29	7	PM2.5	1-Hour	80 µg/m3	92 µg/m3	6.0 km/hr	12° (NNE)	420404
Sep 29	8	PM2.5	24-Hour	29 µg/m3	89 µg/m3	4.6 km/hr	43° (NE)	420404
Sep 29	-	PM2.5	24-Hour	29 µg/m3	61 µg/m3	4.6 km/hr	43° (NE)	420404

The source of the exceedances of the PM2.5 objective and guideline was due to wildfire smokes.

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



## TABLES, CHARTS AND WIND ROSES

## 986-C STATION

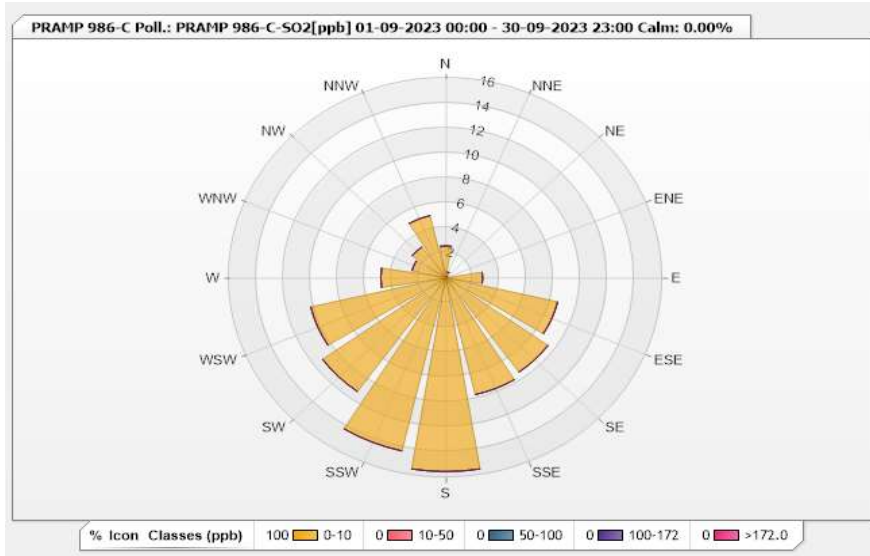


Station: PRAMP 986-C Poll.: PRAMP 986-C-SO2[ppb] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 86.81%      Calm Avg: 0.00 [ppm]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	2.56	0	0	0	0	2.56
NNE	0.48	0	0	0	0	0.48
NE	0.16	0	0	0	0	0.16
ENE	0	0	0	0	0	0
E	2.72	0	0	0	0	2.72
ESE	8.48	0	0	0	0	8.48
SE	9.28	0	0	0	0	9.28
SSE	9.6	0	0	0	0	9.6
S	15.52	0	0	0	0	15.52
SSW	14.24	0	0	0	0	14.24
SW	11.2	0	0	0	0	11.2
WSW	10.24	0	0	0	0	10.24
W	4.8	0	0	0	0	4.8
WNW	2.56	0	0	0	0	2.56
NW	3.04	0	0	0	0	3.04
NNW	5.12	0	0	0	0	5.12
Summary	100	0	0	0	0	100



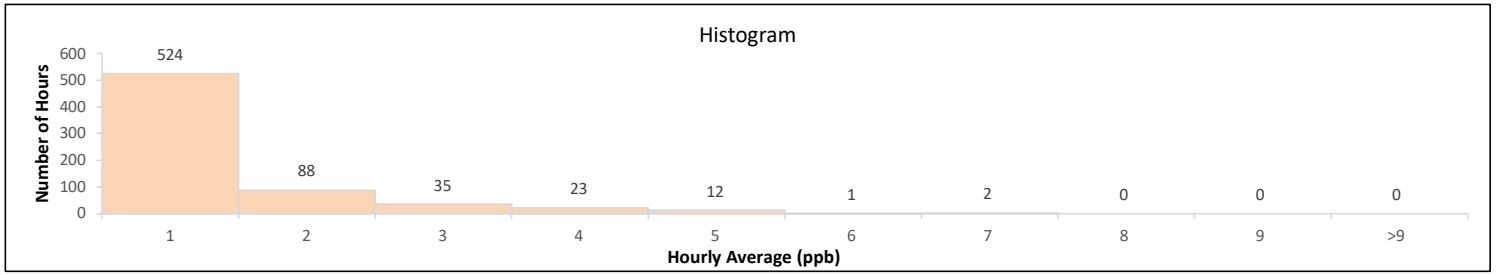
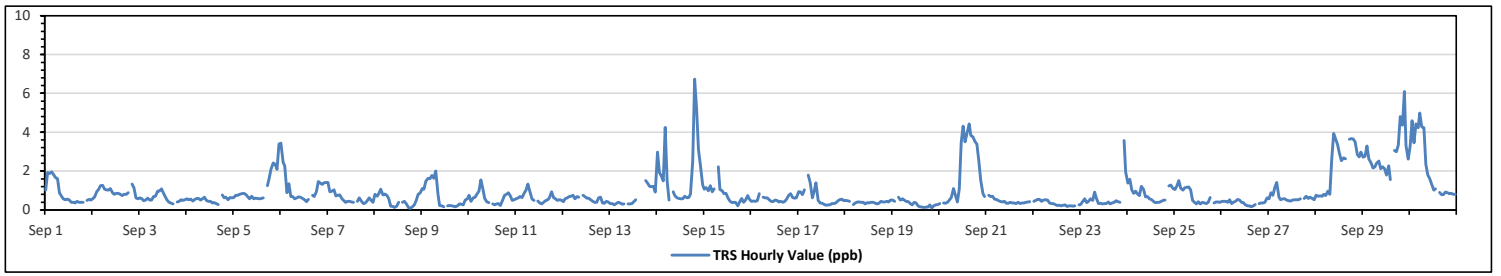
**Peace River Area Monitoring Program**  
**986-C Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL REDUCED SULPHUR (TRS) in ppb**

Maximum Hourly Value:	6.74	ppb	on Sep 14 at hr 19	Hours in Service:	720
Maximum Daily Value:	2.86	ppb	on Sep 29	Hours of Data:	685
Minimum Hourly Value:	0.08	ppb	on Sep 8 at hr 18	Hours of Missing Data:	0
Minimum Daily Value:	0.32	ppb	on Sep 19	Hours of Calibration:	35
Monthly Average:	0.91	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	
Sep 1	1.02	1.92	1.88	1.95	1.81	1.66	1.61	0.88	0.69	0.58	0.52	0.55	0.51	0.38	0.4	0.35	0.45	0.38	0.38	0.38	S	0.48	0.54	0.5	0.35	1.95	0.86	
Sep 2	0.56	0.67	0.95	1.06	1.25	1.26	1.07	1.04	1.02	1.09	0.88	0.81	0.85	0.86	0.81	0.73	0.8	0.8	0.88	S	1.33	1.13	0.63	0.56	0.56	1.33	0.91	
Sep 3	0.63	0.58	0.47	0.51	0.6	0.51	0.51	0.69	0.71	0.98	0.98	1.08	0.87	0.67	0.49	0.4	0.34	0.31	S	0.41	0.45	0.52	0.49	0.53	0.31	1.08	0.60	
Sep 4	0.58	0.52	0.55	0.46	0.54	0.59	0.59	0.51	0.57	0.66	0.47	0.43	0.45	0.36	0.37	0.33	0.28	S	0.77	0.62	0.65	0.52	0.64	0.63	0.28	0.77	0.53	
Sep 5	0.64	0.76	0.75	0.8	0.84	0.86	0.79	0.68	0.58	0.7	0.56	0.6	0.59	0.58	0.59	0.62	S	1.25	1.59	2.08	2.42	2.35	2.08	3.4	0.56	3.40	1.14	
Sep 6	3.44	2.45	2.27	0.89	1.35	0.69	0.69	0.58	0.62	0.67	0.65	0.59	0.53	0.42	0.54	S	0.74	0.68	0.93	1.47	1.37	1.31	1.4	1.41	0.42	3.44	1.12	
Sep 7	1.42	0.94	0.97	1.03	0.72	0.75	0.77	0.57	0.48	0.39	0.44	0.45	0.41	0.39	S	0.44	0.61	0.45	0.32	0.35	0.47	0.63	0.48	0.4	0.32	1.42	0.60	
Sep 8	0.81	0.71	0.87	1.06	0.77	0.82	0.76	0.59	0.19	0.18	0.12	0.19	0.39	S	0.22	0.23	0.22	0.19	0.16	0.22	0.3	0.29	0.27	0.5	0.57	0.16	2.01	0.73
Sep 9	1.11	1.06	1.48	1.62	1.61	1.78	1.63	2.01	0.8	0.23	0.2	0.16	S	0.22	0.23	0.22	0.19	0.16	0.22	0.3	0.29	0.27	0.5	0.57	0.16	2.01	0.73	
Sep 10	0.75	0.43	0.63	0.66	0.82	0.96	1.54	1.1	0.59	0.41	0.37	S	0.31	0.27	0.31	0.32	0.23	0.5	0.75	0.8	0.89	0.72	0.49	0.53	0.23	1.54	0.63	
Sep 11	0.58	0.63	0.68	0.64	0.86	1.02	1.34	0.95	0.55	0.48	S	0.46	0.36	0.3	0.38	0.47	0.52	0.61	0.93	0.64	0.58	0.49	0.53	0.51	0.30	1.34	0.63	
Sep 12	0.42	0.57	0.61	0.68	0.71	0.74	0.57	0.68	0.65	S	0.74	0.69	0.6	0.6	0.52	0.45	0.39	0.39	0.61	0.65	0.35	0.34	0.43	0.41	0.34	0.74	0.56	
Sep 13	0.32	0.32	0.27	0.33	0.4	0.34	0.29	0.3	S	0.3	0.3	0.32	0.42	0.52	C	C	C	C	1.51	1.38	1.22	1.19	1.21	0.92	0.27	1.51	0.62	
Sep 14	2.98	1.93	1.77	1.49	4.25	1.5	0.51	S	0.93	0.73	0.63	0.59	0.58	0.56	0.7	0.62	0.64	0.82	2.5	6.74	5.24	3.1	2.31	1.3	0.51	6.74	1.84	
Sep 15	1.06	1.14	0.99	1.24	0.93	1.08	S	2.22	1.05	0.99	0.84	0.85	0.62	0.46	0.37	0.4	0.39	0.21	0.42	0.59	0.38	0.5	0.73	0.55	0.21	2.22	0.78	
Sep 16	0.44	0.46	0.43	0.47	0.83	S	0.65	0.61	0.62	0.52	0.43	0.42	0.5	0.48	0.41	0.45	0.39	0.44	0.58	0.75	0.84	0.64	0.6	0.63	0.39	0.84	0.55	
Sep 17	0.93	0.93	0.78	1.03	S	1.79	1.42	0.62	0.99	1.39	0.49	0.35	0.34	0.29	0.24	0.27	0.25	0.33	0.32	0.35	0.46	0.52	0.55	0.47	0.24	1.79	0.66	
Sep 18	0.49	0.47	0.44	S	0.28	0.36	0.41	0.41	0.38	0.38	0.3	0.37	0.35	0.4	0.39	0.35	0.31	0.34	0.44	0.41	0.45	0.41	0.5	0.28	0.50	0.39	0.34	
Sep 19	0.51	0.43	S	0.65	0.51	0.57	0.5	0.45	0.42	0.32	0.26	0.38	0.35	0.21	0.16	0.15	0.13	0.14	0.14	0.25	0.1	0.22	0.25	0.28	0.10	0.65	0.32	
Sep 20	0.32	S	0.35	0.34	0.4	0.51	0.64	1.09	0.81	0.41	1.07	3.47	4.32	3.5	4.01	4.43	3.84	3.76	3.53	3.39	2.54	1.53	0.83	0.69	0.32	4.43	1.99	
Sep 21	S	0.76	0.69	0.71	0.55	0.54	0.47	0.45	0.41	0.43	0.34	0.34	0.39	0.36	0.35	0.33	0.38	0.32	0.36	0.36	0.4	0.41	0.42	S	0.32	0.76	0.44	
Sep 22	0.45	0.49	0.54	0.54	0.43	0.51	0.53	0.51	0.35	0.32	0.33	0.28	0.23	0.24	0.22	0.24	0.25	0.17	0.22	0.22	0.19	0.22	S	0.26	0.17	0.54	0.34	
Sep 23	0.28	0.43	0.56	0.37	0.44	0.57	0.48	0.92	0.61	0.33	0.34	0.31	0.33	0.32	0.41	0.3	0.36	0.39	0.47	0.42	0.39	S	3.57	1.94	0.28	3.57	0.63	
Sep 24	1.37	1.58	1.03	0.85	0.98	0.81	0.73	1.22	1.05	0.67	0.68	0.57	0.54	0.44	0.37	0.4	0.4	0.44	0.49	0.51	S	1.23	1.27	1.09	0.37	1.58	0.81	
Sep 25	1.05	1.23	1.51	1.12	1.01	1.13	1.17	1.18	1.04	0.49	0.38	0.31	0.42	0.31	0.39	0.36	0.33	0.38	0.64	S	0.36	0.41	0.41	0.39	0.31	1.51	0.70	
Sep 26	0.43	0.43	0.43	0.4	0.53	0.33	0.41	0.43	0.54	0.51	0.39	0.37	0.25	0.22	0.2	0.16	0.2	0.28	S	0.32	0.35	0.35	0.39	0.62	0.16	0.62	0.37	
Sep 27	0.57	0.88	0.76	1.15	1.41	0.66	0.52	0.57	0.56	0.5	0.47	0.46	0.5	0.52	0.53	0.52	0.56	S	0.59	0.7	0.59	0.66	0.59	0.52	0.46	1.41	0.64	
Sep 28	0.74	0.7	0.72	0.7	0.8	0.73	0.98	0.79	2.63	3.94	3.66	3.37	2.91	2.53	2.68	2.64	S	3.63	3.67	3.65	3.52	2.84	2.73	2.99	0.70	3.94	2.33	
Sep 29	2.72	2.77	3.28	2.62	2.46	2.16	2.22	2.39	2.51	2.12	2.22	2.12	1.79	2.28	1.57	S	3.07	3	3.33	4.82	4.37	6.1	3.31	2.61	1.57	6.10	2.86	
Sep 30	3.3	4.6	3.45	4.43	4.24	4.99	4.29	4.23	2.36	1.81	1.61	1.34	1.01	1.08	S	0.9	0.78	0.78	0.91	0.89	0.83	0.86	0.79	0.79	0.78	4.99	2.19	
Diurnal Maximum	3.44	4.60	3.45	4.43	4.25	4.99	4.29	4.23	2.63	3.94	3.66	3.47	4.32	3.50	4.01	4.43	3.84	3.76	3.67	6.74	5.24	6.10	3.57	3.40				
Diurnal Average	1.03	1.06	1.04	1.03	1.11	1.04	0.97	0.99	0.85	0.78	0.71	0.77	0.75	0.68	0.67	0.64	0.63	0.78	0.99	1.20	1.12	1.05	1.01	0.93				

C	Monthly Calibration	S	Daily Zero-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.

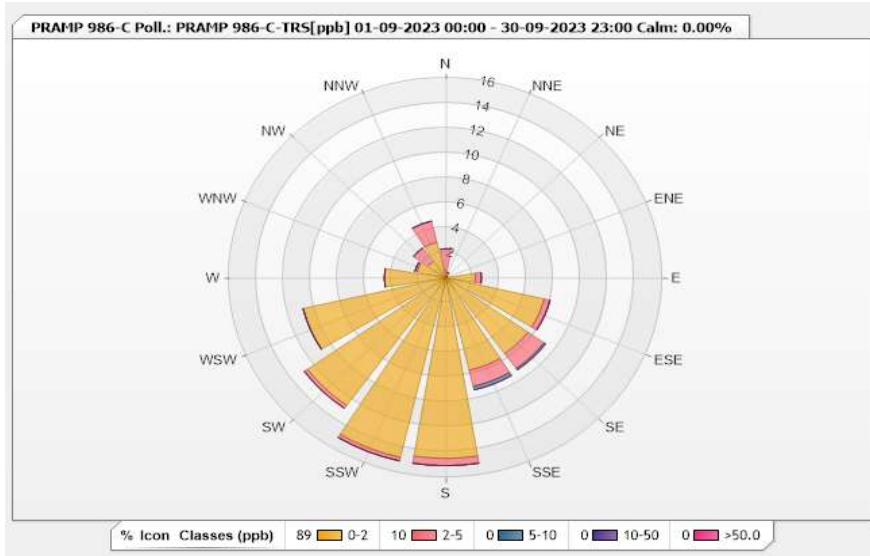


Station: PRAMP 986-C Poll.: PRAMP 986-C-TRS[ppb] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	0.58	1.75	0	0	0	2.33
NNE	0	0.44	0	0	0	0.44
NE	0.15	0	0	0	0	0.15
ENE	0	0	0	0	0	0
E	2.19	0.44	0	0	0	2.63
ESE	7.46	0.44	0	0	0	7.9
SE	7.46	1.46	0.15	0	0	9.07
SSE	7.6	1.32	0.29	0	0	9.21
S	14.47	0.58	0	0	0	15.05
SSW	14.77	0.29	0	0	0	15.06
SW	12.57	0.29	0	0	0	12.86
WSW	10.82	0	0	0	0	10.82
W	4.53	0	0	0	0	4.53
WNW	2.19	0.15	0	0	0	2.34
NW	1.61	1.32	0	0	0	2.93
NNW	2.92	1.75	0	0	0	4.67
Summary	89.32	10.23	0.44	0	0	100





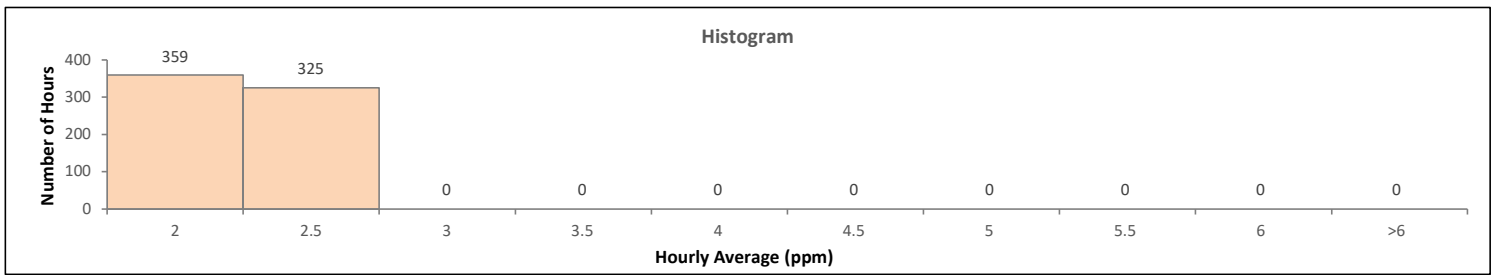
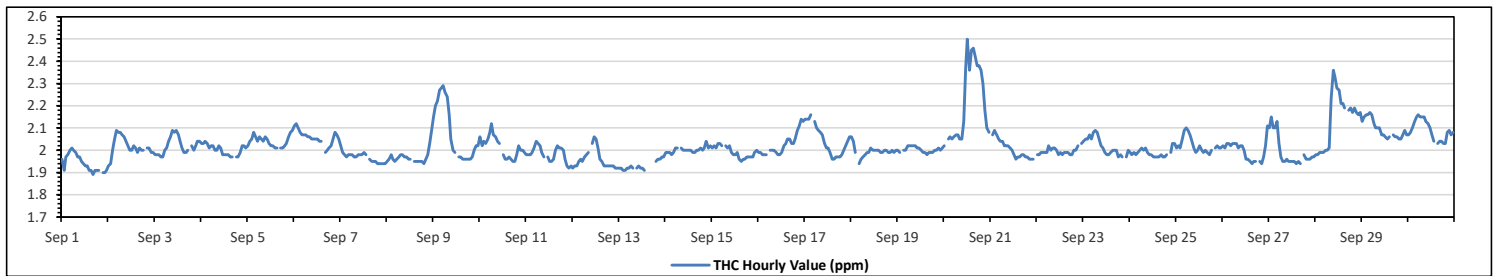
**Peace River Area Monitoring Program**  
**986-C Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL HYDROCARBONS (THC) in ppm**

Maximum Hourly Value:	2.50 ppm	on Sep 20 at hr 12	Hours in Service:	720
Maximum Daily Value:	2.22 ppm	on Sep 20	Hours of Data:	684
Minimum Hourly Value:	1.89 ppm	on Sep 1 at hr 16	Hours of Missing Data:	1
Minimum Daily Value:	1.93 ppm	on Sep 13	Hours of Calibration:	35
Monthly Average:	2.02 ppm		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	1.96	1.91	1.97	1.98	2.00	2.01	2.00	1.99	1.97	1.97	1.95	1.94	1.93	1.93	1.91	1.91	1.89	1.91	1.91	1.91	S	1.90	1.90	1.91	1.89	2.01	1.94	
Sep 2	1.93	1.94	2.00	2.04	2.09	2.08	2.08	2.07	2.06	2.04	2.02	2.00	2.00	2.02	2.01	1.99	2.01	2.00	2.00	S	2.01	2.01	1.99	1.99	1.93	2.09	2.02	
Sep 3	1.98	1.98	1.98	1.97	1.97	2.00	2.01	2.04	2.06	2.09	2.08	2.09	2.07	2.04	2.01	1.99	1.99	2.00	S	2.02	2.00	2.02	2.04	2.04	1.97	2.09	2.02	
Sep 4	2.03	2.03	2.04	2.03	2.01	2.02	2.02	2.00	2.00	2.02	2.01	1.98	1.98	1.98	1.97	1.97	S	1.97	1.97	1.99	2.02	2.02	2.02	2.01	1.97	2.04	2.00	
Sep 5	2.02	2.04	2.05	2.08	2.06	2.04	2.06	2.05	2.04	2.06	2.05	2.03	2.02	2.02	2.01	2.01	S	2.01	2.01	2.02	2.03	2.06	2.08	2.09	2.01	2.09	2.04	
Sep 6	2.11	2.12	2.10	2.08	2.07	2.07	2.07	2.06	2.06	2.05	2.05	2.05	2.05	2.04	2.04	S	1.99	2.00	2.01	2.02	2.05	2.08	2.07	2.05	1.99	2.12	2.06	
Sep 7	2.02	1.99	1.98	1.97	1.98	1.98	1.98	1.97	1.97	1.98	1.98	1.98	1.99	1.98	S	1.96	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	2.02	1.97	
Sep 8	1.95	1.96	1.98	1.96	1.95	1.96	1.97	1.98	1.98	1.97	1.97	1.96	1.96	S	1.95	1.95	1.95	1.95	1.95	1.94	1.96	1.98	2.03	2.09	1.94	2.09	1.97	
Sep 9	2.15	2.20	2.22	2.27	2.28	2.29	2.26	2.24	2.16	2.05	2.00	1.99	S	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	2.00	2.02	2.02	1.96	2.29	2.08	
Sep 10	2.06	2.02	2.04	2.03	2.05	2.08	2.12	2.07	2.06	2.04	2.03	S	1.98	1.96	1.96	1.97	1.96	1.95	1.95	1.98	2.02	2.00	2.00	1.99	1.95	2.12	2.01	
Sep 11	1.98	1.98	1.98	1.99	2.01	2.04	2.03	2.02	1.99	1.97	S	1.97	1.95	1.95	1.96	2.00	2.02	2.01	2.01	2.00	1.96	1.93	1.92	1.93	1.92	2.04	1.98	
Sep 12	1.92	1.93	1.93	1.95	1.96	1.95	1.97	1.98	1.99	S	2.03	2.06	2.05	2.01	1.96	1.95	1.93	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	2.06	1.96	
Sep 13	1.92	1.92	1.91	1.91	1.92	1.92	1.93	1.92	S	1.92	1.93	1.92	1.92	1.91	Y	C	C	C	C	1.95	1.96	1.96	1.97	1.97	1.91	1.97	1.93	
Sep 14	1.99	1.99	1.99	1.98	1.99	2.01	2.01	S	2.01	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.01	2.00	2.01	2.00	2.01	2.04	2.01	2.02	1.98	2.04	2.00
Sep 15	2.01	2.02	2.01	2.03	2.03	2.02	S	2.02	2.01	2.02	1.99	1.98	1.98	1.99	1.96	1.95	1.96	1.96	1.97	1.97	1.97	1.97	1.99	2.00	1.95	2.03	1.99	
Sep 16	1.99	1.99	1.98	1.98	1.98	S	2.00	2.00	2.00	1.99	1.98	1.98	1.99	2.02	2.03	2.05	2.05	2.03	2.03	2.05	2.09	2.11	2.14	2.13	1.98	2.14	2.03	
Sep 17	2.14	2.14	2.14	2.16	S	2.13	2.10	2.09	2.08	2.07	2.03	2.01	2.01	1.99	1.96	1.96	1.97	1.97	1.97	1.98	2.00	2.02	2.04	2.06	1.96	2.16	2.04	
Sep 18	2.06	2.04	1.99	S	1.94	1.96	1.97	1.98	1.99	1.99	2.01	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.00	1.99	1.99	2.00	1.99	2.00	1.94	2.06	1.99	
Sep 19	2.00	1.99	S	2.00	2.00	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.00	1.99	1.99	1.98	1.99	1.99	1.99	1.99	2.00	2.01	2.00	2.01	1.98	2.02	2.00	
Sep 20	2.02	S	2.05	2.06	2.05	2.06	2.07	2.07	2.05	2.05	2.13	2.37	2.50	2.36	2.45	2.46	2.42	2.38	2.38	2.36	2.30	2.18	2.10	2.08	2.02	2.50	2.22	
Sep 21	S	2.07	2.09	2.07	2.05	2.04	2.04	2.02	2.02	2.01	2.00	1.98	1.96	1.97	1.97	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	S	1.96	2.09	2.00	
Sep 22	1.98	1.98	1.99	1.99	1.99	1.99	2.02	2.00	2.01	2.01	2.00	1.98	1.99	1.98	1.99	1.99	1.99	1.98	1.98	2.00	2.00	2.02	S	2.03	1.98	2.03	2.00	
Sep 23	2.04	2.05	2.05	2.07	2.05	2.08	2.09	2.08	2.05	2.02	2.01	1.99	1.98	1.98	1.99	2.00	2.00	2.00	1.97	1.98	1.97	S	1.97	2.00	1.97	2.09	2.02	
Sep 24	1.99	1.98	1.99	1.98	1.99	2.00	2.01	2.00	2.01	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.97	1.97	1.98	S	1.99	2.03	2.03	1.97	2.03	1.99	
Sep 25	2.01	2.02	2.01	2.05	2.09	2.10	2.09	2.07	2.04	2.01	1.99	2.00	2.02	2.00	1.99	2.00	1.99	1.98	2.00	S	2.01	2.02	2.01	2.01	1.98	2.10	2.02	
Sep 26	2.02	2.01	2.03	2.03	2.02	2.03	2.03	2.03	2.01	2.02	2.02	2.00	1.96	1.96	1.95	1.94	1.95	1.95	1.95	S	1.95	1.94	1.97	2.02	2.11	1.94	2.11	2.00
Sep 27	2.10	2.15	2.10	2.10	2.13	2.03	1.97	1.95	1.95	1.96	1.95	1.95	1.95	1.94	1.95	1.94	S	1.98	1.96	1.96	1.96	1.96	1.97	1.97	1.94	2.15	1.99	
Sep 28	1.98	1.98	1.99	1.99	1.99	2.00	2.00	2.01	2.23	2.36	2.33	2.28	2.27	2.21	2.21	2.19	S	2.18	2.19	2.17	2.19	2.17	2.16	2.17	1.98	2.36	2.14	
Sep 29	2.13	2.15	2.16	2.16	2.17	2.16	2.12	2.10	2.10	2.10	2.07	2.07	2.06	2.05	2.06	S	2.07	2.06	2.06	2.05	2.05	2.07	2.09	2.07	2.05	2.17	2.09	
Sep 30	2.07	2.08	2.10	2.13	2.15	2.16	2.15	2.15	2.15	2.13	2.12	2.10	2.07	2.04	S	2.03	2.04	2.04	2.03	2.03	2.08	2.09	2.07	2.08	2.03	2.16	2.09	
Diurnal Maximum	2.15	2.20	2.22	2.27	2.28	2.29	2.26	2.24	2.23	2.36	2.33	2.37	2.50	2.36	2.45	2.46	2.42	2.38	2.38	2.36	2.30	2.18	2.16	2.17				
Diurnal Average	2.02	2.02	2.03	2.04	2.03	2.04	2.04	2.03	2.04	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	2.01	2.01	2.00	2.01	2.01	2.02	2.02				

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

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

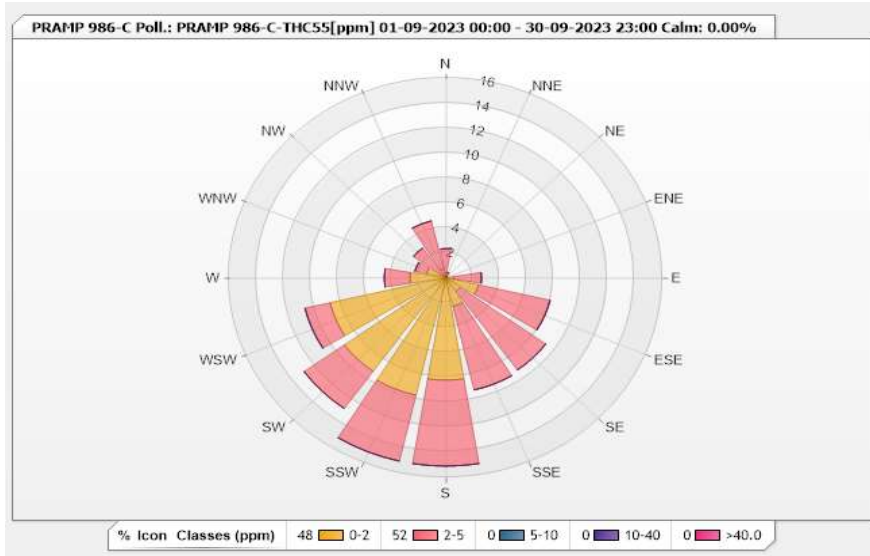


Station: PRAMP 986-C Poll.: PRAMP 986-C-THC55[ppm] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	2.34	0	0	0	2.34
NNE	0	0.44	0	0	0	0.44
NE	0	0.15	0	0	0	0.15
ENE	0	0	0	0	0	0
E	0.59	2.05	0	0	0	2.64
ESE	2.49	5.42	0	0	0	7.91
SE	1.32	7.76	0	0	0	9.08
SSE	2.34	6.88	0	0	0	9.22
S	8.2	6.88	0	0	0	15.08
SSW	9.66	5.42	0	0	0	15.08
SW	9.22	3.66	0	0	0	12.88
WSW	8.78	1.9	0	0	0	10.68
W	2.64	1.9	0	0	0	4.54
WNW	1.46	0.88	0	0	0	2.34
NW	0.29	2.64	0	0	0	2.93
NNW	0.73	3.95	0	0	0	4.68
Summary	47.72	52.27	0	0	0	100



Peace River Area Monitoring Program

986-C Station - September 2023

Summary of Hourly Averages

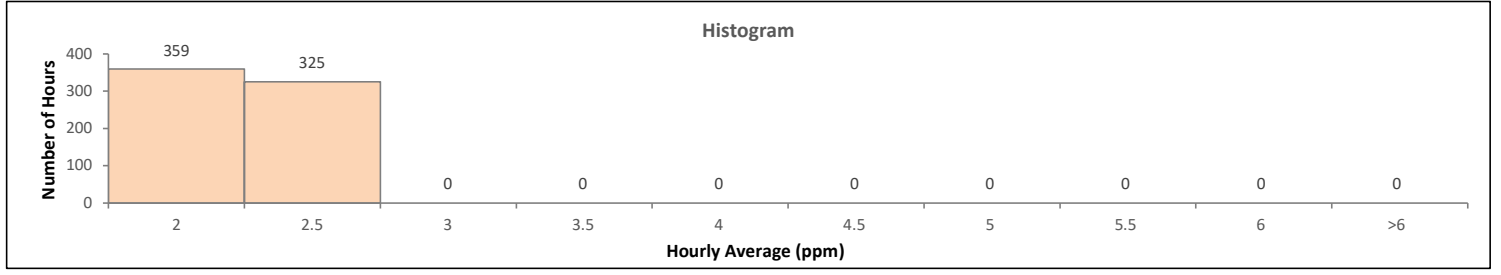
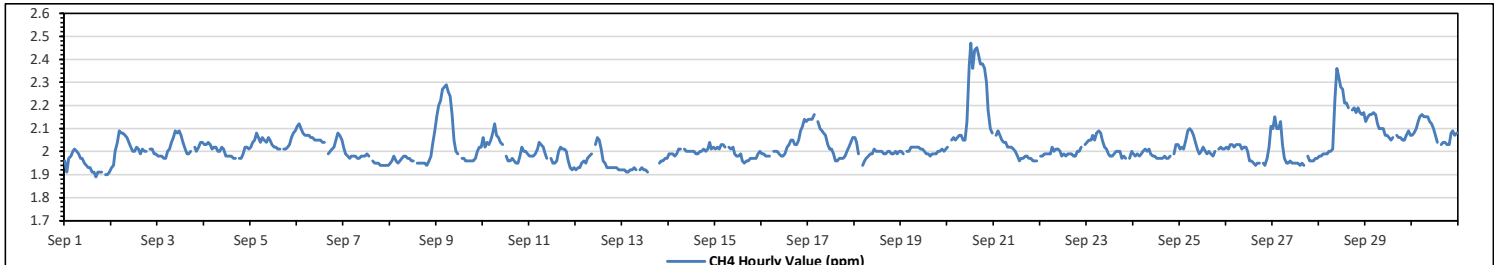
METHANE (CH4) in ppm

Maximum Hourly Value:	2.47	ppm	on Sep 20 at hr 12	Hours in Service:	720
Maximum Daily Value:	2.21	ppm	on Sep 20	Hours of Data:	684
Minimum Hourly Value:	1.89	ppm	on Sep 1 at hr 16	Hours of Missing Data:	1
Minimum Daily Value:	1.93	ppm	on Sep 13	Hours of Calibration:	35
Monthly Average:	2.02	ppm		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	1.96	1.91	1.97	1.98	2.00	2.01	2.00	1.99	1.97	1.97	1.95	1.94	1.93	1.93	1.91	1.91	1.89	1.91	1.91	1.91	S	1.90	1.90	1.91	1.89	2.01	1.94	
Sep 2	1.93	1.94	2.00	2.04	2.09	2.08	2.08	2.07	2.06	2.04	2.02	2.00	2.00	2.02	2.01	1.99	2.01	2.00	2.00	S	2.01	2.01	1.99	1.99	1.93	2.09	2.02	
Sep 3	1.98	1.98	1.98	1.97	1.97	2.00	2.01	2.04	2.06	2.09	2.08	2.09	2.07	2.04	2.01	1.99	1.99	2.00	S	2.02	2.00	2.02	2.04	2.04	1.97	2.09	2.02	
Sep 4	2.03	2.03	2.04	2.03	2.01	2.02	2.02	2.00	2.00	2.02	2.01	1.98	1.98	1.98	1.98	1.97	1.97	S	1.97	1.99	2.02	2.02	2.01	1.97	2.04	2.00		
Sep 5	2.02	2.04	2.05	2.08	2.06	2.04	2.06	2.05	2.04	2.06	2.05	2.03	2.02	2.02	2.01	2.01	S	2.01	2.01	2.02	2.03	2.06	2.08	2.09	2.01	2.09	2.04	
Sep 6	2.11	2.12	2.10	2.08	2.07	2.07	2.07	2.06	2.06	2.05	2.05	2.05	2.05	2.04	S	1.99	2.00	2.01	2.02	2.05	2.08	2.07	2.05	1.99	2.12	2.06		
Sep 7	2.02	1.99	1.98	1.97	1.98	1.98	1.98	1.97	1.97	1.98	1.98	1.98	1.99	1.98	S	1.96	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	2.02	1.97		
Sep 8	1.95	1.96	1.98	1.96	1.95	1.96	1.97	1.98	1.98	1.97	1.97	1.96	1.96	S	1.95	1.95	1.95	1.95	1.95	1.94	1.96	1.98	2.03	2.09	1.94	2.09	1.97	
Sep 9	2.15	2.20	2.22	2.27	2.28	2.29	2.26	2.24	2.16	2.05	2.00	1.99	S	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	2.00	2.02	2.02	1.96	2.29	2.08	
Sep 10	2.06	2.02	2.04	2.03	2.05	2.08	2.12	2.07	2.06	2.04	2.03	S	1.98	1.96	1.96	1.97	1.96	1.95	1.95	1.98	2.02	2.00	2.00	1.99	1.95	2.12	2.01	
Sep 11	1.98	1.98	1.98	1.99	2.01	2.04	2.03	2.02	1.99	1.97	S	1.97	1.95	1.95	1.96	2.00	2.02	2.01	2.01	2.00	1.96	1.93	1.92	1.93	1.92	2.04	1.98	
Sep 12	1.92	1.93	1.93	1.95	1.96	1.95	1.97	1.98	1.99	S	2.03	2.06	2.05	2.01	1.96	1.95	1.93	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	2.06	1.96	
Sep 13	1.92	1.92	1.91	1.91	1.92	1.92	1.93	1.92	S	1.92	1.93	1.92	1.92	1.91	Y	C	C	C	C	1.95	1.96	1.96	1.97	1.97	1.91	1.97	1.93	
Sep 14	1.99	1.99	1.99	1.98	1.99	2.01	2.01	S	2.01	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.01	2.00	2.01	2.00	2.01	2.04	2.01	2.02	1.98	2.04	2.00
Sep 15	2.01	2.02	2.01	2.03	2.03	2.02	S	2.02	2.01	2.02	1.99	1.98	1.98	1.99	1.96	1.95	1.96	1.96	1.97	1.97	1.97	1.97	1.99	2.00	1.95	2.03	1.99	
Sep 16	1.99	1.99	1.98	1.98	1.98	S	2.00	2.00	2.00	1.99	1.98	1.98	1.99	2.02	2.03	2.05	2.05	2.03	2.03	2.05	2.09	2.11	2.14	2.13	1.98	2.14	2.03	
Sep 17	2.14	2.14	2.14	2.16	S	2.13	2.10	2.09	2.08	2.07	2.03	2.01	2.01	1.99	1.96	1.96	1.97	1.97	1.97	1.98	2.00	2.02	2.04	2.06	1.96	2.16	2.04	
Sep 18	2.06	2.04	1.99	S	1.94	1.96	1.97	1.98	1.99	1.99	2.01	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.00	1.99	1.99	2.00	1.99	2.00	1.94	2.06	1.99	
Sep 19	2.00	1.99	S	2.00	2.00	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.00	1.99	1.99	1.98	1.99	1.99	1.99	1.99	2.00	2.01	2.00	2.01	1.98	2.02	2.00	
Sep 20	2.02	S	2.05	2.06	2.05	2.06	2.07	2.07	2.05	2.05	2.13	2.37	2.47	2.36	2.44	2.45	2.42	2.38	2.38	2.36	2.30	2.18	2.10	2.08	2.02	2.47	2.21	
Sep 21	S	2.07	2.09	2.07	2.05	2.04	2.04	2.02	2.02	2.01	2.00	1.98	1.96	1.97	1.97	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	S	1.96	2.09	2.00	
Sep 22	1.98	1.98	1.99	1.99	1.99	1.99	2.02	2.00	2.01	2.01	2.00	1.98	1.99	1.98	1.99	1.99	1.99	1.98	1.98	2.00	2.00	2.02	S	2.03	1.98	2.03	2.00	
Sep 23	2.04	2.05	2.05	2.07	2.05	2.08	2.09	2.08	2.05	2.02	2.01	1.99	1.98	1.98	1.99	2.00	2.00	2.00	1.97	1.98	1.97	S	1.97	2.00	1.97	2.09	2.02	
Sep 24	1.99	1.98	1.99	1.98	1.99	2.00	2.01	2.00	2.01	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.97	1.97	1.98	S	1.99	2.03	2.03	1.97	2.03	1.99	
Sep 25	2.01	2.02	2.01	2.05	2.09	2.10	2.09	2.07	2.04	2.01	1.99	2.00	2.02	2.00	1.99	2.00	1.99	1.98	2.00	S	2.01	2.02	2.01	2.01	1.98	2.10	2.02	
Sep 26	2.02	2.01	2.03	2.03	2.02	2.03	2.03	2.03	2.01	2.02	2.02	2.00	1.96	1.96	1.95	1.94	1.95	1.95	S	1.95	1.94	1.97	2.02	2.11	1.94	2.11	2.00	
Sep 27	2.10	2.15	2.10	2.10	2.13	2.03	1.97	1.95	1.95	1.96	1.95	1.95	1.95	1.94	1.95	1.94	S	1.98	1.96	1.96	1.96	1.97	1.97	1.94	2.15	1.99		
Sep 28	1.98	1.98	1.99	1.99	1.99	2.00	2.00	2.01	2.23	2.36	2.33	2.28	2.27	2.21	2.21	2.19	S	2.18	2.19	2.17	2.19	2.17	2.16	2.17	1.98	2.36	2.14	
Sep 29	2.13	2.15	2.16	2.16	2.17	2.16	2.12	2.10	2.10	2.10	2.07	2.07	2.06	2.05	2.06	S	2.07	2.06	2.06	2.05	2.05	2.07	2.09	2.07	2.05	2.17	2.09	
Sep 30	2.07	2.08	2.10	2.13	2.15	2.16	2.15	2.15	2.13	2.12	2.10	2.07	2.04	2.05	S	2.03	2.04	2.04	2.03	2.03	2.08	2.09	2.07	2.08	2.03	2.16	2.09	
Diurnal Maximum	2.15	2.20	2.22	2.27	2.28	2.29	2.26	2.24	2.23	2.36	2.33	2.37	2.47	2.36	2.44	2.45	2.42	2.38	2.38	2.36	2.30	2.18	2.16	2.17				
Diurnal Average	2.02	2.02	2.03	2.04	2.03	2.04	2.04	2.03	2.04	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	2.01	2.01	2.00	2.01	2.01	2.02	2.02				

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

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

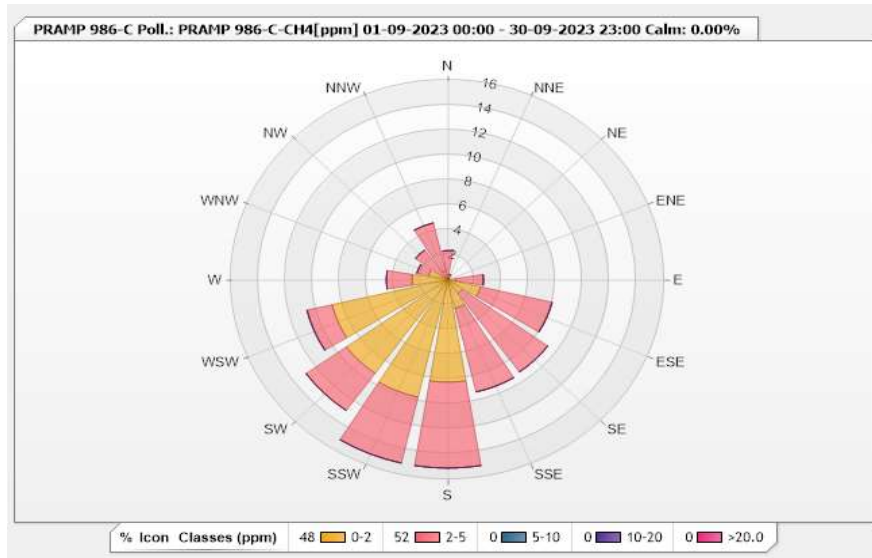


Station: PRAMP 986-C Poll.: PRAMP 986-C-CH4[ppm] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	2.34	0	0	0	2.34
NNE	0	0.44	0	0	0	0.44
NE	0	0.15	0	0	0	0.15
ENE	0	0	0	0	0	0
E	0.59	2.05	0	0	0	2.64
ESE	2.49	5.42	0	0	0	7.91
SE	1.32	7.76	0	0	0	9.08
SSE	2.34	6.88	0	0	0	9.22
S	8.2	6.88	0	0	0	15.08
SSW	9.66	5.42	0	0	0	15.08
SW	9.22	3.66	0	0	0	12.88
WSW	8.78	1.9	0	0	0	10.68
W	2.64	1.9	0	0	0	4.54
WNW	1.46	0.88	0	0	0	2.34
NW	0.29	2.64	0	0	0	2.93
NNW	0.73	3.95	0	0	0	4.68
Summary	47.72	52.27	0	0	0	100



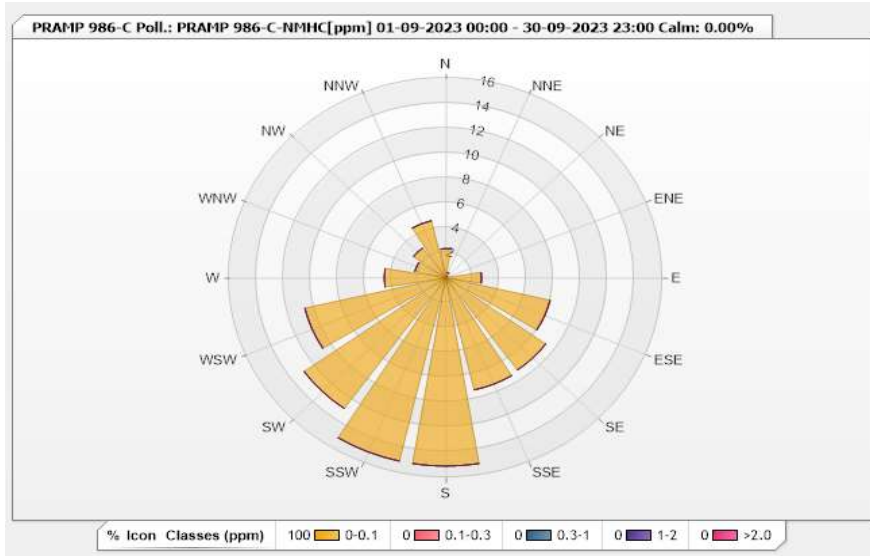


Station: PRAMP 986-C Poll.: PRAMP 986-C-NMHC[ppm] Monthly: 09-2023

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

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

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	2.34	0	0	0	0	2.34
NNE	0.44	0	0	0	0	0.44
NE	0.15	0	0	0	0	0.15
ENE	0	0	0	0	0	0
E	2.64	0	0	0	0	2.64
ESE	7.91	0	0	0	0	7.91
SE	9.08	0	0	0	0	9.08
SSE	9.22	0	0	0	0	9.22
S	15.08	0	0	0	0	15.08
SSW	15.08	0	0	0	0	15.08
SW	12.88	0	0	0	0	12.88
WSW	10.69	0	0	0	0	10.69
W	4.54	0	0	0	0	4.54
WNW	2.34	0	0	0	0	2.34
NW	2.93	0	0	0	0	2.93
NNW	4.69	0	0	0	0	4.69
Summary	100	0	0	0	0	100



**Peace River Area Monitoring Program**

**986-C Station - September 2023**

**Summary of Hourly Averages**

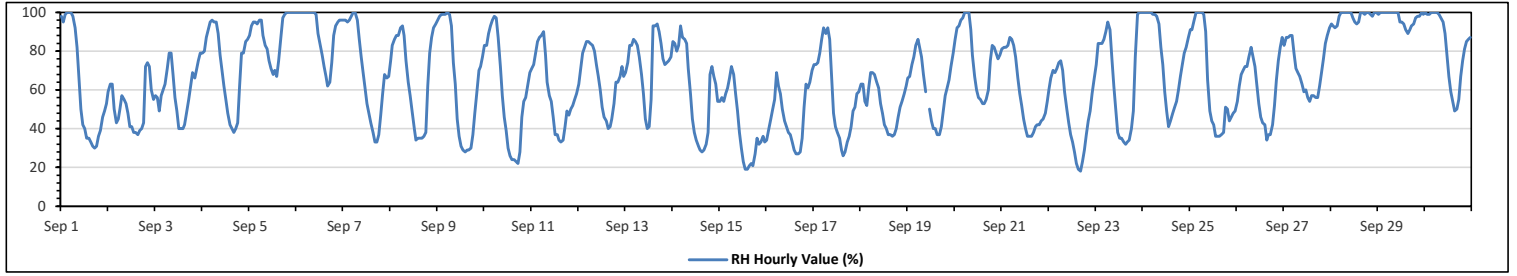
**RELATIVE HUMIDITY (RH) in %**

Maximum Hourly Value:	100 %	on Sep 1 at hr 3	Hours in Service:	720
Maximum Daily Value:	97.8 %	on Sep 28	Hours of Data:	719
Minimum Hourly Value:	18 %	on Sep 22 at hr 16	Hours of Missing Data:	1
Minimum Daily Value:	41.0 %	on Sep 15	Hours of Calibration:	0
Monthly Average:	66.6 %		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	98	95	99	100	100	100	98	92	82	66	50	42	40	35	33	31	30	31	36	39	46	49	53	30	100	61.7		
Sep 2	59	63	63	50	43	45	50	57	55	53	48	41	41	38	38	37	39	40	43	72	74	72	60	55	37	74	51.5	
Sep 3	57	56	49	57	60	63	71	79	79	68	56	49	40	40	40	42	48	55	62	69	66	70	75	79	40	79	59.6	
Sep 4	79	80	87	91	95	96	95	95	89	78	70	62	55	48	42	40	38	40	43	62	79	79	85	86	38	96	71.4	
Sep 5	88	93	95	95	94	96	96	88	83	81	75	71	68	70	67	75	87	97	99	100	100	100	100	100	67	100	88.3	
Sep 6	100	100	100	100	100	100	100	100	100	100	99	89	84	78	72	67	62	64	74	88	93	95	96	96	62	100	89.9	
Sep 7	96	96	95	96	98	100	100	96	86	77	69	61	53	48	43	38	33	37	47	58	68	66	67	33	100	69.2		
Sep 8	75	83	86	88	88	92	93	88	75	64	57	49	40	34	35	35	35	36	38	62	79	87	92	94	34	94	66.9	
Sep 9	96	98	99	99	99	100	99	93	74	63	45	36	31	29	28	29	30	37	48	58	70	72	77	28	100	64.1		
Sep 10	83	83	89	93	96	98	97	87	72	57	46	39	30	26	24	23	22	28	46	54	56	63	69	22	98	58.5		
Sep 11	71	73	79	85	87	88	90	78	64	57	54	46	37	37	34	33	34	41	49	47	50	52	55	58	33	90	58.3	
Sep 12	63	71	79	82	85	85	84	83	80	73	67	60	51	46	44	40	41	45	53	64	64	67	72	67	40	85	65.3	
Sep 13	69	74	83	83	86	85	83	77	68	58	45	40	41	55	93	93	94	90	84	76	73	74	75	77	40	94	74.0	
Sep 14	85	84	80	83	93	87	86	84	71	58	45	38	34	31	29	28	29	32	38	68	72	67	63	54	28	93	60.0	
Sep 15	54	56	54	58	61	66	72	68	58	49	38	30	23	19	19	21	22	21	27	35	32	33	36	33	19	72	41.0	
Sep 16	34	40	45	50	55	69	62	58	50	44	41	38	37	33	29	27	27	28	35	51	63	61	64	70	27	70	46.3	
Sep 17	73	73	74	79	86	92	89	92	86	70	48	41	38	35	29	26	28	33	36	41	49	51	58	59	26	92	57.8	
Sep 18	63	63	54	52	61	69	69	68	64	61	53	48	42	40	37	37	36	37	40	46	51	54	58	62	36	69	52.7	
Sep 19	66	67	73	77	83	86	82	77	68	59	K	50	44	40	40	37	37	41	49	57	61	65	72	79	37	86	61.3	
Sep 20	86	92	93	96	97	100	100	100	91	78	67	60	56	55	53	53	55	60	75	83	82	79	76	78	53	100	77.7	
Sep 21	81	82	82	83	87	86	83	77	66	58	52	45	40	36	36	38	41	42	42	44	45	48	54	36	87	57.7		
Sep 22	60	66	70	69	71	74	75	70	59	50	43	37	33	28	22	19	18	23	29	37	44	49	58	65	18	75	48.7	
Sep 23	73	84	84	84	86	90	95	91	76	62	52	38	35	35	33	32	33	34	40	49	77	99	100	100	32	100	65.9	
Sep 24	100	100	100	100	100	100	99	99	98	94	82	73	59	49	41	44	48	51	54	60	67	73	79	82	87	41	100	76.6
Sep 25	91	91	96	100	100	100	100	99	90	65	49	44	42	36	36	36	37	38	51	50	44	46	48	49	36	100	64.1	
Sep 26	54	62	68	70	72	72	77	82	77	72	64	53	46	43	42	34	37	37	42	52	65	75	82	87	34	87	61.0	
Sep 27	83	87	87	88	88	79	71	69	67	63	59	60	56	54	57	57	56	56	62	69	76	84	88	92	54	92	71.2	
Sep 28	94	93	92	93	98	100	100	100	100	100	100	100	97	95	94	95	100	100	99	100	100	99	98	100	100	92	100	97.8
Sep 29	99	100	100	100	100	100	100	100	100	100	100	95	95	94	91	89	91	93	94	97	98	98	100	99	89	100	97.2	
Sep 30	100	99	99	100	100	100	100	99	97	95	89	78	67	59	54	49	50	55	67	75	81	85	86	87	49	100	82.1	
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	97	95	94	95	100	100	99	100	100	100	100	100	100	100	100	100	100
Diurnal Average	77.7	80.1	81.8	83.4	85.6	87.2	87.2	84.8	77.4	68.7	60.5	53.2	48.1	45.2	44.7	43.8	44.6	46.8	52.2	61.2	66.6	70.1	72.6	74.4				

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

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



**Peace River Area Monitoring Program**  
**986-C Station - September 2023**  
**Summary of Hourly Averages**  
**BAROMETRIC PRESSURE (BP) in millibar**

Maximum Hourly Value:	954	mb	on Sep 9 at hr 8	Hours in Service:	720
Maximum Daily Value:	952	mb	on Sep 9	Hours of Data:	719
Minimum Hourly Value:	927	mb	on Sep 1 at hr 16	Hours of Missing Data:	1
Minimum Daily Value:	931	mb	on Sep 17	Hours of Calibration:	0
Monthly Average:	939	mb		Operational Uptime:	99.9

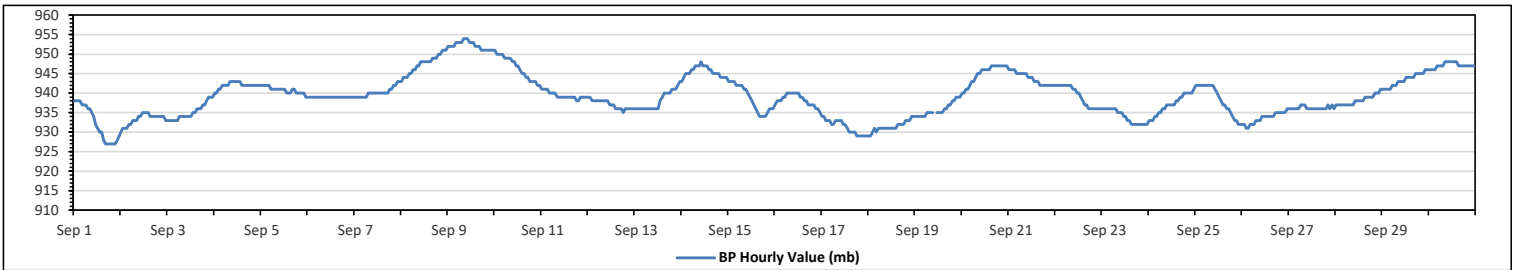
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	938	938	938	938	937	937	937	936	936	935	934	932	931	930	930	928	927	927	927	927	927	927	928	929	927	938	932
Sep 2	930	931	931	931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

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

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





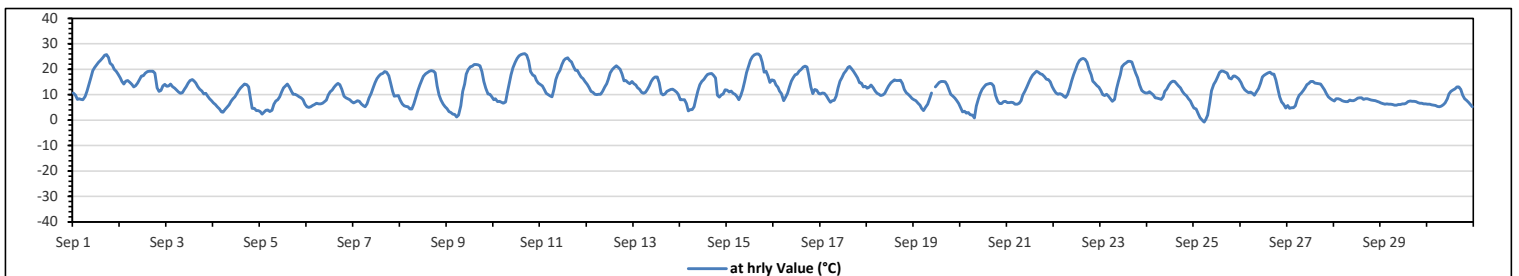
**Peace River Area Monitoring Program**  
**986-C Station - September 2023**  
**Summary of Hourly Averages**  
**AMBIENT TEMPERATURE (AT) in Degree Celsius**

Maximum Hourly Value:	26.1 °C	on Sep 10 at hr 16	Hours in Service:	720
Maximum Daily Value:	17.3 °C	on Sep 1	Hours of Data:	719
Minimum Hourly Value:	-0.8 °C	on Sep 25 at hr 5	Hours of Missing Data:	1
Minimum Daily Value:	6.6 °C	on Sep 29	Hours of Calibration:	0
Monthly Average:	12.1 °C		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	10.7	9.7	8.2	8.3	8.2	8.1	9.3	11.4	14	16.6	19.5	20.7	21.7	22.7	23.5	24.5	25.5	25.7	24.6	22.4	21.6	20	19.2	18.1	8.1	25.7	17.3
Sep 2	16.5	15.1	14.2	15.3	15.5	14.9	14	13	13.6	14.5	15.9	17.3	17.5	18.4	19	19.1	19.1	19.1	18.5	12.6	11.3	11.6	13.4	14	11.3	19.1	15.6
Sep 3	13.3	13.4	14.2	13.2	12.5	11.8	11	10.5	10.8	12.1	13.2	14.6	15.6	16	15.4	14.5	13.2	12.2	11.4	10.3	10.5	9.4	8.4	7.6	7.6	16.0	12.3
Sep 4	6.8	6.1	5.2	4.3	3.2	3.1	4.2	5.1	6	7.4	8.4	9.2	10.4	11.6	12.7	13.5	14.1	13.9	13	8.3	4.6	4.6	3.8	3.8	3.1	14.1	7.6
Sep 5	3.4	2.4	3.1	3.9	4	3.3	3.9	6.3	7.5	8	9.2	11	12.7	13.5	14.1	13	11.2	10.2	10.1	9.7	9.1	8.7	8	6.3	2.4	14.1	8.0
Sep 6	5.2	5	5.2	5.7	6.1	6.6	6.4	6.4	6.6	7.1	7.9	9.9	11.1	11.8	12.9	13.8	14.4	13.9	12.2	9.4	8.8	8.4	8	7.2	5.0	14.4	8.8
Sep 7	6.8	7.1	7.6	7.4	6.4	5.6	5.2	6.4	8.6	10.6	12.7	14.7	16.3	17.3	18	18.3	19	18.8	17.5	14.4	11.2	9.4	9.5	9.6	5.2	19.0	11.6
Sep 8	7.8	6.4	5.6	5.4	5.2	4.3	4.3	6.3	9.1	11.6	13.7	15.7	17.2	18.2	18.7	19.1	19.4	19.1	18.6	13.4	9.8	7.9	6.2	5.3	4.3	19.4	11.2
Sep 9	4.5	3.4	2.9	2.4	2.2	1.2	1.9	5.6	11.3	14.2	18.1	19.8	20.9	21.2	21.8	21.8	21.7	21.3	19	15.2	12.5	10.3	10.1	9.2	1.2	21.8	12.2
Sep 10	8.1	8.3	7.2	7.4	7	6.7	7.1	10.5	14.1	17.8	20.5	22.8	24.3	25.2	25.7	25.9	<b>26.1</b>	25.5	23.2	19	17.7	17.4	15.7	14.5	6.7	<b>26.1</b>	16.6
Sep 11	14	13.4	12	10.5	10	9.5	9.2	12.1	15.9	18.1	19.6	21.8	23.5	24.1	24.4	23.5	22.9	21.1	19.6	19.6	18.2	17	16.3	15.2	9.2	24.4	17.1
Sep 12	14	12.8	11.3	10.9	10.2	10	10.1	10.2	11.3	13	14.3	16.1	18.6	20	20.7	21.4	20.7	20	18.1	15.4	15.6	14.9	14.3	15.2	10.0	21.4	15.0
Sep 13	14.3	13.8	12.8	12	10.9	10.6	10.9	12.1	13.4	15.2	16.3	17	16.9	14.7	10.6	9.8	10.3	11.2	11.6	12	12.2	11.7	10.9	10	9.8	17.0	12.6
Sep 14	8.1	8.1	8	6.5	3.6	4.2	4.1	5.2	8.5	11.5	13.9	15.2	16.1	17.2	17.9	18.2	18.3	17.6	16.5	9.7	9	9.8	10.3	11.9	3.6	18.3	11.2
Sep 15	11.8	11	11.4	10.5	10.1	9.3	8	9.6	12	15.1	18.7	21.5	23.4	24.8	25.6	26	26	25.2	22.8	18.9	19.1	17.3	14.9	15.8	8.0	26.0	17.0
Sep 16	15.6	13.7	12.9	11.4	10.4	7.6	9	10.6	13	15.3	16.7	17.8	18.1	19.1	20	20.8	21.2	20.8	17.8	13	10.4	12	11.8	10.4	7.6	21.2	14.6
Sep 17	10.3	10.7	10.5	9.6	8.2	7	7.7	7.8	9.4	12.7	15.3	16.7	18.3	19.4	20.7	21.1	20.3	19.2	17.8	16.5	14.7	14.6	13	13.3	7.0	21.1	14.0
Sep 18	12.5	12.9	13.7	12.7	11.4	10.6	10.1	9.6	9.8	10.5	12.1	13.4	14.7	15.1	15.8	15.5	15.6	15.7	14.4	12.1	10.8	10.1	9.4	8.5	8.5	15.8	12.4
Sep 19	8	7.6	6.6	5.9	4.6	3.8	5	6.2	8.4	10.7	<b>K</b>	13	13.9	14.9	15.1	15.2	15	13.7	11.8	10.2	9.4	8.6	7.6	6.5	3.8	15.2	9.6
Sep 20	4.8	3.2	3.5	2.7	3	2.1	1.9	0.9	5.5	8.2	10.4	12	13	13.9	14.2	14.4	14.3	13.5	9.7	7.4	6.5	6.5	7.2	7.3	0.9	14.4	7.8
Sep 21	6.9	6.9	7	6.9	6.2	6.6	7.6	9.7	11.4	13.1	14.9	16.4	17.7	18.5	19.2	18.9	18.2	17.9	17.1	16.1	15.9	15	13.2	6.2	19.2	12.8	
Sep 22	11.8	10.7	10.2	10.4	10	9.4	8.9	10	12.6	15.4	17.8	19.9	21.9	23.3	24	24.3	23.8	22.7	19.7	17.8	15.3	14.5	13.6	12.9	8.9	24.3	15.9
Sep 23	11.6	10	9.6	10.2	9.4	8.3	7.4	8.2	12.2	15.2	17.8	20.9	21.9	22.5	23	23	22.9	20.6	18.5	16.7	13.9	11.7	11	10.7	7.4	23.0	14.9
Sep 24	10.7	11.1	10.5	9.8	8.8	8.6	8.3	8.2	9.2	11.2	12.2	13.7	14.9	15.3	15.1	14.3	13.5	12.7	11.3	10.3	9.5	8.3	7.5	5.9	5.9	15.3	10.9
Sep 25	4.7	4.3	2.6	1	0.1	<b>-0.8</b>	0.2	2	6.5	11.5	14	15.3	17	18.7	19.3	19.2	18.9	18.4	16.5	16.2	17.4	17.3	16.8	16.2	<b>-0.8</b>	19.3	11.4
Sep 26	14.9	13	11.9	11.3	10.8	11	10.5	9.7	11	12.4	14.4	16.9	17.6	18.1	18.6	18.8	18	18	15.8	12.4	9.1	7.1	6.2	4.7	4.7	18.8	13.0
Sep 27	5.7	4.6	4.8	4.9	5.6	8.2	9.7	10.5	11.6	12.8	13.9	14.4	15.2	15.2	14.6	14.4	14.3	14.1	13	11.9	10.4	9.1	8.4	7.9	4.6	15.2	10.6
Sep 28	7.5	8.4	8.4	8.2	7.7	7.3	7.2	7.2	7.9	7.6	7.7	8.1	8.6	8.8	8.8	8.2	8.3	8.4	8.2	7.9	7.8	7.7	7.3	7.1	7.1	8.8	7.9
Sep 29	6.8	6.5	6.3	6.4	6.2	6.2	6.1	5.9	5.9	6.1	6.1	6.4	6.4	6.7	7.2	7.5	7.3	7.3	7.2	6.9	6.7	6.6	6.4	6.4	5.9	7.5	<b>6.6</b>
Sep 30	6.2	6.2	6	5.9	5.7	5.4	5.3	5.5	6	6.8	8.3	10.3	11.3	11.8	12.3	13.1	13	12.1	9.7	8.4	7.8	7	6.1	5.3	5.3	13.1	8.1
Diurnal Maximum	16.5	15.1	14.2	15.3	15.5	14.9	14.0	13.0	15.9	18.1	20.5	22.8	24.3	25.2	25.7	26.0	26.1	25.7	24.6	22.4	21.6	20.0	19.2	18.1			
Diurnal Average	9.4	8.9	8.4	8.0	7.4	7.0	7.1	8.0	10.0	12.0	13.9	15.4	16.5	17.2	17.6	17.7	17.6	17.0	15.5	13.2	11.9	11.2	10.5	10.0			

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

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



**Peace River Area Monitoring Program**  
**986-C Station - September 2023**  
**Summary of Hourly Averages**  
**STATION TEMPERATURE (ST) in Degree Celsius**

Maximum Hourly Value:	24.7 °C	on Sep 28 at hr 7	Hours in Service:	720
Maximum Daily Value:	24.3 °C	on Sep 29	Hours of Data:	720
Minimum Hourly Value:	22.3 °C	on Sep 2 at hr 3	Hours of Missing Data:	0
Minimum Daily Value:	22.8 °C	on Sep 5	Hours of Calibration:	0
Monthly Average:	23.3 °C		Operational Uptime:	100.0

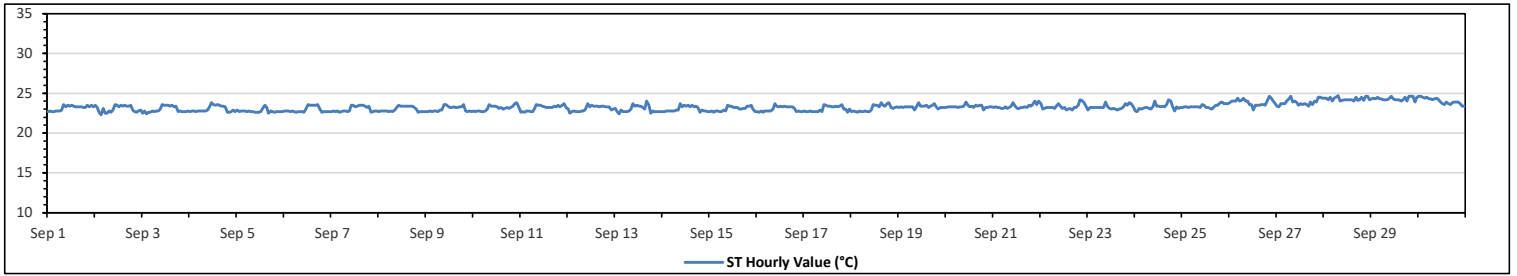
  

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average	
Sep 1	22.7	22.8	22.7	22.7	22.8	22.8	22.8	22.9	23.6	23.3	23.5	23.4	23.5	23.4	23.3	23.3	23.3	23.2	23.2	23.5	23.3	23.5	23.3	22.7	23.6	23.2		
Sep 2	23.5	23.2	22.6	22.3	23.1	22.5	22.5	22.8	22.6	22.9	23.6	23.5	23.3	23.5	23.4	23.5	23.4	23.4	23.5	22.9	22.7	22.6	22.8	22.9	22.3	23.6	23.0	
Sep 3	22.5	22.8	22.4	22.6	22.6	22.8	22.7	22.8	22.8	23.0	23.6	23.5	23.5	23.5	23.4	23.5	23.3	23.4	22.7	22.8	22.7	22.7	22.7	22.8	22.4	23.6	23.0	
Sep 4	22.7	22.8	22.8	22.7	22.8	22.8	22.8	22.8	22.8	22.9	23.3	23.8	23.6	23.5	23.6	23.5	23.4	23.4	23.3	22.6	22.6	22.7	22.7	22.9	22.7	22.6	23.8	23.0
Sep 5	22.9	22.7	22.8	22.8	22.8	22.7	22.8	22.7	22.7	22.6	22.6	22.6	22.7	23.1	23.5	23.2	22.5	22.8	22.7	22.6	22.7	22.7	22.7	22.7	22.5	23.5	22.8	
Sep 6	22.8	22.8	22.8	22.7	22.8	22.7	22.6	22.7	22.7	22.6	23.0	23.6	23.5	23.5	23.5	23.5	23.5	23.6	23.0	22.6	22.7	22.7	22.7	22.7	22.6	23.6	22.9	
Sep 7	22.7	22.8	22.7	22.8	22.6	22.7	22.8	22.8	22.7	22.8	23.5	23.0	23.3	23.4	23.5	23.5	23.5	23.4	23.2	23.4	22.6	22.7	22.8	22.8	22.6	23.5	23.0	
Sep 8	22.7	22.8	22.8	22.8	22.8	22.7	22.8	22.7	22.9	23.2	23.5	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.2	23.0	22.6	22.7	22.7	22.7	22.6	23.5	23.0	
Sep 9	22.7	22.7	22.8	22.7	22.8	22.8	22.7	22.9	22.9	23.6	23.6	23.4	23.2	23.2	23.3	23.2	23.2	23.3	23.6	22.8	22.7	22.8	22.7	22.7	22.7	23.6	23.0	
Sep 10	22.8	22.7	22.8	22.8	22.7	22.7	22.8	23.0	23.6	23.4	23.4	23.4	23.3	23.1	23.2	23.0	23.1	23.2	23.1	23.2	23.4	23.7	23.8	23.2	22.7	23.8	23.1	
Sep 11	22.6	22.7	22.6	22.8	22.8	22.7	22.7	23.0	23.6	23.5	23.5	23.4	23.3	23.2	23.2	23.2	23.2	23.4	23.3	23.5	23.3	23.5	23.7	23.2	22.6	23.7	23.2	
Sep 12	23.0	22.5	22.7	22.8	22.7	22.7	22.7	22.8	23.0	23.7	23.3	23.5	23.4	23.4	23.4	23.4	23.3	23.4	23.4	23.3	23.3	23.3	22.9	23.0	22.5	23.7	23.1	
Sep 13	23.1	22.7	22.4	22.9	22.7	22.7	22.7	22.8	23.0	23.7	23.4	23.5	23.4	23.4	23.2	23.0	24.0	23.5	22.5	22.8	22.7	22.7	22.7	22.7	22.4	24.0	23.0	
Sep 14	22.7	22.7	22.8	22.8	22.8	22.8	22.8	22.9	22.9	23.7	23.3	23.5	23.4	23.5	23.3	23.5	23.3	23.4	23.2	22.6	22.9	22.8	22.8	22.7	22.6	23.7	23.0	
Sep 15	22.7	22.8	22.6	22.8	22.8	22.7	22.7	22.9	22.8	23.5	23.4	23.4	23.2	23.2	23.2	23.0	23.0	23.1	23.1	23.4	23.4	23.5	23.0	22.7	22.6	23.5	23.0	
Sep 16	22.7	22.6	22.8	22.6	22.8	22.8	22.8	23.0	23.7	23.4	23.3	23.4	23.3	23.4	23.3	23.3	23.3	23.3	23.3	23.1	22.7	22.8	22.7	22.7	22.6	23.7	23.0	
Sep 17	22.8	22.7	22.7	22.8	22.7	22.7	22.7	22.9	22.7	23.6	23.5	23.4	23.4	23.3	23.3	23.3	23.4	23.3	23.4	23.6	23.0	23.0	22.6	23.0	22.6	23.6	23.1	
Sep 18	22.7	22.8	22.7	22.6	22.8	22.7	22.7	22.8	22.7	22.7	22.9	23.6	23.5	23.5	23.3	23.8	23.5	23.4	23.7	23.8	23.2	23.1	23.2	23.3	22.6	23.8	23.1	
Sep 19	23.2	23.3	23.2	23.3	23.3	23.3	23.3	22.9	23.4	23.8	23.4	23.4	23.4	23.5	23.2	23.4	23.5	23.7	23.3	23.0	23.2	23.2	23.2	22.9	23.8	23.8	23.3	
Sep 20	23.2	23.3	23.3	23.3	23.3	23.3	23.2	23.3	23.3	23.4	23.9	23.5	23.3	23.4	23.2	23.5	23.4	23.5	23.5	22.9	23.2	23.2	23.3	23.3	22.9	23.9	23.3	
Sep 21	23.2	23.3	23.2	23.2	23.1	23.1	23.3	23.1	23.2	23.4	23.8	23.4	23.1	23.1	23.2	23.2	23.3	23.2	23.5	23.4	23.6	24.0	23.6	24.0	23.1	24.0	23.4	
Sep 22	23.7	23.0	23.1	23.2	23.2	23.2	23.2	23.1	23.4	23.7	23.4	23.1	23.2	22.9	23.0	23.1	22.9	23.2	23.2	23.5	24.2	24.1	23.8	23.4	22.9	24.2	23.3	
Sep 23	22.9	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.9	23.3	23.1	23.0	23.1	23.0	22.9	23.0	23.1	23.3	23.7	23.5	23.8	23.7	23.3	22.9	23.9	23.3	
Sep 24	22.8	22.7	23.1	23.0	23.1	23.2	23.2	23.1	23.0	23.3	24.0	23.4	23.4	23.3	23.4	23.3	23.6	24.2	24.0	23.3	22.8	23.3	23.1	23.2	22.7	24.2	23.3	
Sep 25	23.2	23.3	23.3	23.2	23.3	23.3	23.3	23.3	23.3	23.2	23.6	23.5	23.2	23.2	23.1	23.0	23.3	23.5	23.5	23.8	23.9	23.7	23.7	23.7	23.0	23.9	23.4	
Sep 26	23.8	24.0	24.0	24.0	24.4	24.0	24.1	24.4	24.0	24.0	23.6	23.6	22.9	23.5	23.5	23.5	23.6	23.6	23.5	24.0	24.6	24.4	24.0	23.7	22.9	24.6	23.9	
Sep 27	23.4	23.3	23.7	23.7	23.7	24.0	24.3	24.6	23.9	24.0	23.8	23.5	23.7	23.6	23.7	23.6	23.4	23.9	23.6	24.0	23.9	24.5	24.5	24.4	23.3	24.6	23.9	
Sep 28	24.4	24.4	24.2	24.5	24.0	24.4	24.5	24.7	24.0	24.1	24.2	24.2	24.2	24.2	24.2	24.0	24.5	24.1	24.2	24.5	24.1	24.6	24.6	24.2	24.0	24.7	24.3	
Sep 29	24.3	24.4	24.3	24.5	24.3	24.3	24.2	24.2	24.4	24.6	24.3	24.2	24.2	24.2	24.2	24.0	24.2	24.5	24.0	24.6	24.6	24.6	23.9	24.5	23.9	24.6	24.3	
Sep 30	24.6	24.6	24.5	24.4	24.5	24.3	24.3	24.2	24.3	24.4	24.2	23.9	23.7	23.6	23.9	23.7	23.6	23.8	23.9	23.9	23.9	23.7	23.4	23.4	23.4	24.6	24.0	
Diurnal Maximum	24.6	24.6	24.5	24.5	24.5	24.4	24.5	24.7	24.3	24.4	24.6	24.3	24.2	24.2	24.2	24.0	24.5	24.5	24.2	24.6	24.6	24.6	24.6	24.6	24.5	24.5	24.5	
Diurnal Average	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.2	23.4	23.6	23.5	23.4	23.4	23.4	23.4	23.4	23.4	23.5	23.4	23.4	23.3	23.3	23.3	23.2	23.2	23.2	

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

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



**Peace River Area Monitoring Program**

**986-C Station - September 2023**

**Summary of Hourly Averages**

**PRECIPITATION in mm**

Maximum Hourly Value:	1.9 mm on Sep 28 at hr 15	Hours in Service:	720
Maximum Daily Value:	2.2 mm on Sep 28	Hours of Data:	719
Minimum Hourly Value:	0.0 mm on Sep 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 mm on Sep 1	Hours of Calibration:	1
Monthly Total:	5.8 mm	Operational Uptime:	100.0

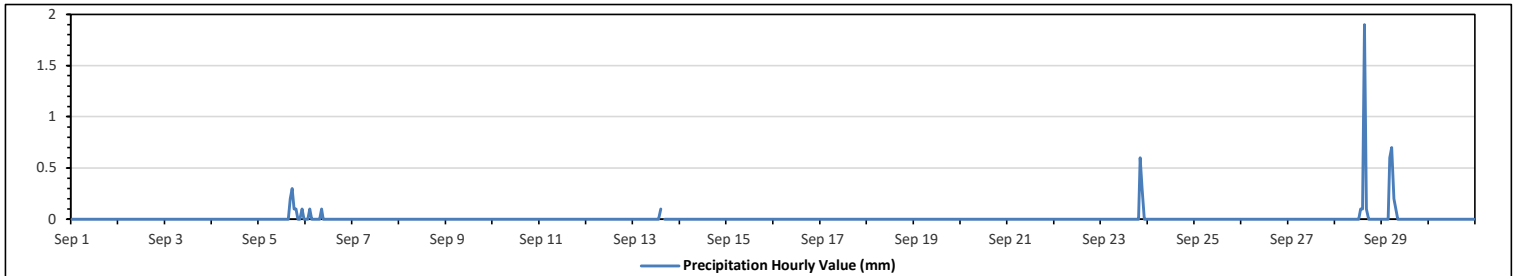
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 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
Sep 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
Sep 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	0.1	0.1	0	0	0.1	0	0.0	0.0	0.8
Sep 6	0	0	0.1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.2
Sep 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	C	0	0	0	0	0	0	0	0.0	0.1	0.1
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.3	0	0.0	0.6	0.9
Sep 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 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
Sep 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
Sep 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
Sep 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	1.9	0.1	0	0	0	0	0	0	0	0.0	1.9	2.2
Sep 29	0	0	0	0	0.6	0.7	0.2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.7	1.6
Sep 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.0	0.0	0.1	0.0	0.6	0.7	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	1.9	0.2	0.3	0.1	0.1	0.6	0.3	0.1	0.0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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

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



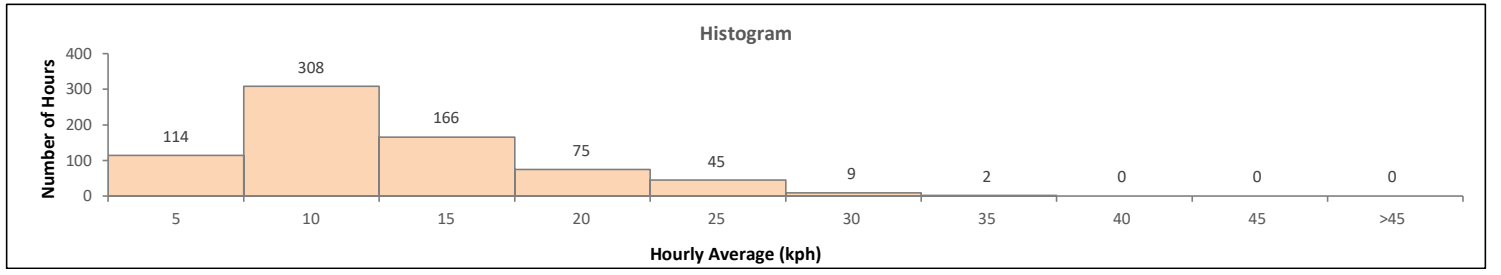
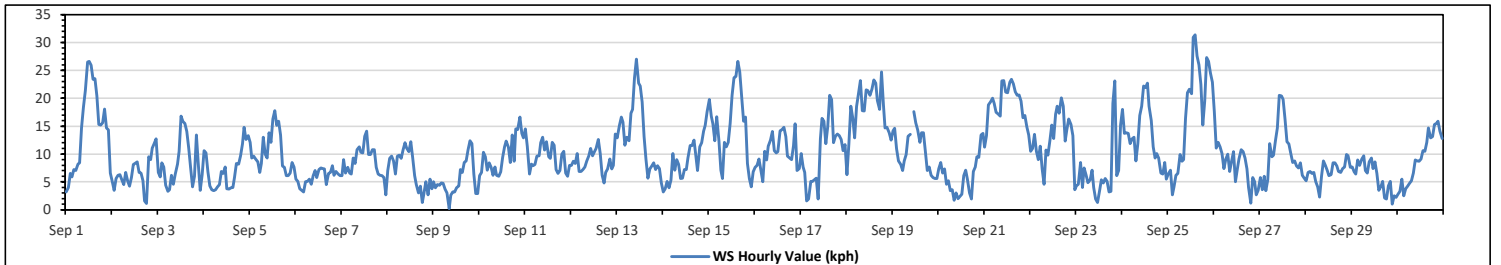
**Peace River Area Monitoring Program**  
**986-C Station - September 2023**  
**Summary of Hourly Averages**  
**VECTOR WIND SPEED (VWS) in km/hr**

Maximum Hourly Value:	31.4 kph	on Sep 25 at hr 14	Hours in Service:	720
Maximum Daily Value:	18.9 kph	on Sep 21	Hours of Data:	719
Minimum Hourly Value:	0.2 kph	on Sep 9 at hr 8	Hours of Missing Data:	1
Minimum Daily Value:	5.4 kph	on Sep 9	Hours of Calibration:	0
Monthly Average:	6.1 kph		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	3.2	4.0	6.5	5.9	7.2	7.0	8.2	8.4	14.7	18.4	21.4	26.5	26.6	25.9	23.4	23.5	20.4	15.3	15.2	15.6	18.1	14.7	14.3	6.6	3.2	26.6	14.6
Sep 2	5.1	3.5	5.6	6.2	6.3	5.4	4.5	6.7	5.2	4.2	5.8	8.1	8.3	8.6	6.7	6.6	5.2	1.6	1.1	9.5	9.0	11.1	11.9	12.7	1.1	12.7	6.6
Sep 3	6.7	5.9	8.4	7.7	4.4	3.3	3.6	6.2	4.6	6.4	8.2	10.5	16.8	15.8	15.5	14.0	11.1	7.5	4.1	6.0	13.4	8.1	3.5	6.3	3.3	16.8	8.3
Sep 4	10.6	10.2	6.8	4.3	3.6	3.4	3.6	4.1	4.5	6.9	6.5	7.7	3.8	3.7	3.9	4.0	5.8	8.3	8.2	9.7	11.8	14.8	12.6	13.3	3.4	14.8	7.2
Sep 5	12.1	9.3	9.6	9.1	8.6	6.7	8.3	13.0	10.0	9.3	13.8	12.1	16.3	17.8	15.1	15.9	13.4	7.8	7.6	6.1	6.1	6.6	8.5	7.7	6.1	17.8	10.5
Sep 6	5.5	5.1	3.8	3.5	3.2	5.0	5.1	5.5	4.6	6.1	7.0	5.8	7.2	7.5	7.4	7.3	4.5	6.5	6.7	7.9	6.2	6.9	6.4	6.1	3.2	7.9	5.9
Sep 7	6.1	9.0	6.6	7.6	6.6	6.4	9.3	8.3	10.8	11.3	10.3	10.2	13.2	14.1	9.9	9.9	10.8	10.8	7.6	6.4	6.2	6.1	5.8	2.7	2.7	14.1	8.6
Sep 8	7.0	9.2	9.6	8.8	6.4	9.6	9.8	9.2	10.8	12.0	11.1	10.4	12.2	9.3	6.1	4.6	3.0	4.2	1.3	2.9	5.0	2.7	5.5	3.8	1.3	12.2	7.3
Sep 9	5.0	3.9	4.5	4.4	4.8	4.7	3.7	3.0	0.2	2.6	3.2	3.2	3.9	4.3	7.2	6.7	8.5	8.8	10.8	12.4	11.9	6.4	2.9	2.9	0.2	12.4	5.4
Sep 10	6.1	6.7	10.3	9.5	7.1	8.4	7.6	6.2	7.7	6.2	6.0	6.8	9.4	11.3	12.3	11.2	8.5	13.4	8.7	14.5	14.4	16.6	13.7	12.9	6.0	16.6	9.8
Sep 11	14.5	11.4	6.4	8.2	7.9	8.1	9.6	9.7	12.0	13.0	10.7	12.2	9.5	9.2	12.1	11.6	7.2	6.5	7.0	10.0	10.5	6.6	6.0	8.0	6.0	14.5	9.5
Sep 12	8.0	8.7	8.3	10.1	6.9	6.9	7.2	7.7	8.8	9.6	11.0	9.7	10.4	11.0	12.6	10.1	6.2	4.8	6.7	7.3	9.1	7.3	8.0	13.6	4.8	13.6	8.8
Sep 13	12.9	15.1	16.6	15.7	11.6	13.0	12.4	17.3	18.0	23.6	27.0	22.7	22.2	19.3	13.1	9.0	5.7	7.3	7.8	8.4	7.2	7.9	7.4	4.8	4.8	27.0	13.6
Sep 14	3.2	3.8	5.1	3.9	5.3	10.1	7.1	9.0	8.1	5.6	5.7	7.2	7.2	9.3	11.5	11.5	12.5	10.1	7.0	11.3	12.0	14.1	15.1	17.6	3.2	17.6	8.9
Sep 15	19.8	16.8	15.4	12.4	16.7	12.3	7.1	5.6	12.1	11.3	12.1	15.5	20.5	23.7	23.9	26.6	24.7	20.2	15.9	16.6	8.3	5.6	4.1	6.8	4.1	26.6	14.8
Sep 16	7.6	8.0	9.1	7.1	5.0	10.5	8.9	11.4	12.5	14.0	10.6	10.2	10.4	14.2	14.4	14.8	13.1	9.6	9.3	9.0	11.5	15.4	7.0	7.4	5.0	15.4	10.5
Sep 17	10.1	7.7	6.7	1.6	1.9	5.1	5.1	5.4	5.7	1.9	12.7	16.4	15.9	11.9	15.0	20.5	19.8	12.0	13.2	13.6	13.3	12.6	10.6	11.7	1.6	20.5	10.4
Sep 18	6.3	11.8	18.6	16.5	12.9	18.5	20.8	23.2	17.8	17.7	21.5	21.4	20.5	21.6	23.3	22.7	19.6	18.0	24.7	18.8	14.7	14.8	13.8	12.5	6.3	24.7	18.0
Sep 19	14.2	14.6	10.9	8.8	8.1	7.0	8.8	9.9	13.2	13.5	K	17.6	15.6	14.3	12.1	13.8	13.8	10.5	7.0	7.7	6.2	5.8	5.6	5.6	5.6	17.6	10.6
Sep 20	7.4	8.5	6.6	7.3	4.6	5.2	3.4	3.6	1.7	3.0	2.0	2.4	2.8	6.1	7.1	5.6	3.0	1.9	6.9	7.7	9.5	9.4	13.4	13.7	1.7	13.7	6.0
Sep 21	11.2	13.3	18.8	19.4	20.0	19.1	17.5	17.2	16.8	23.1	23.2	21.1	21.0	22.9	23.4	22.6	21.2	20.5	20.6	19.5	16.5	16.9	14.9	13.4	11.2	23.4	18.9
Sep 22	10.5	11.0	13.5	10.5	9.0	11.4	7.3	4.6	10.7	9.8	12.3	15.2	12.8	17.1	18.6	17.3	20.1	18.6	12.3	14.3	16.3	15.3	13.3	3.6	3.6	20.1	12.7
Sep 23	4.3	4.6	8.5	4.0	7.5	6.3	4.9	5.4	7.1	4.0	1.9	1.3	3.6	5.4	4.8	5.6	5.1	3.2	3.3	19.1	23.1	6.1	7.0	15.2	1.3	23.1	6.7
Sep 24	18.0	13.7	13.8	13.7	11.9	12.7	13.0	8.8	11.9	16.9	18.6	22.2	21.9	22.7	18.6	16.0	11.3	9.3	10.1	9.3	6.6	6.4	8.5	5.5	5.5	22.7	13.4
Sep 25	6.4	7.1	2.7	4.1	6.2	6.5	9.9	8.7	9.0	16.4	21.0	21.6	20.8	30.9	31.4	27.6	26.0	22.5	15.2	19.5	27.3	26.6	24.5	22.9	2.7	31.4	17.3
Sep 26	17.6	11.1	12.1	11.3	10.1	7.4	9.1	10.0	6.9	8.7	10.4	5.0	7.3	9.1	10.8	10.4	9.3	7.3	4.0	1.2	5.8	5.0	2.7	3.5	1.2	17.6	8.2
Sep 27	5.8	3.6	6.0	3.4	5.4	11.9	9.5	9.8	12.4	14.7	20.5	20.4	19.8	16.2	12.2	11.8	10.1	8.5	8.8	7.8	7.5	8.4	6.2	5.7	3.4	20.5	10.3
Sep 28	5.2	6.7	6.9	6.5	6.7	5.0	4.1	2.3	6.0	8.8	8.0	7.0	6.1	6.3	8.4	8.4	7.8	6.9	6.7	7.4	7.7	9.9	9.7	7.6	2.3	9.9	6.9
Sep 29	7.7	6.8	6.4	8.9	8.0	9.1	9.7	7.0	6.6	8.6	9.3	7.4	8.6	6.5	3.5	4.2	5.1	2.1	1.9	4.3	5.1	1.0	2.5	2.2	1.0	9.7	5.9
Sep 30	2.8	3.3	5.5	2.5	3.8	4.2	4.7	5.2	6.6	8.9	8.8	8.7	9.1	10.6	10.5	12.1	14.7	12.9	13.1	15.3	15.5	15.9	14.1	12.8	2.5	15.9	9.2
Diurnal Maximum	19.8	16.8	18.8	19.4	20.0	19.1	20.8	23.2	18.0	23.6	27.0	26.5	26.6	30.9	31.4	27.6	26.0	22.5	24.7	19.5	27.3	26.6	24.5	22.9			
Diurnal Average	8.7	8.5	9.0	8.1	7.6	8.3	8.1	8.4	9.2	10.6	11.7	12.2	12.8	13.6	13.2	12.9	11.6	9.9	9.1	10.6	11.2	10.2	9.3	9.0			

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

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

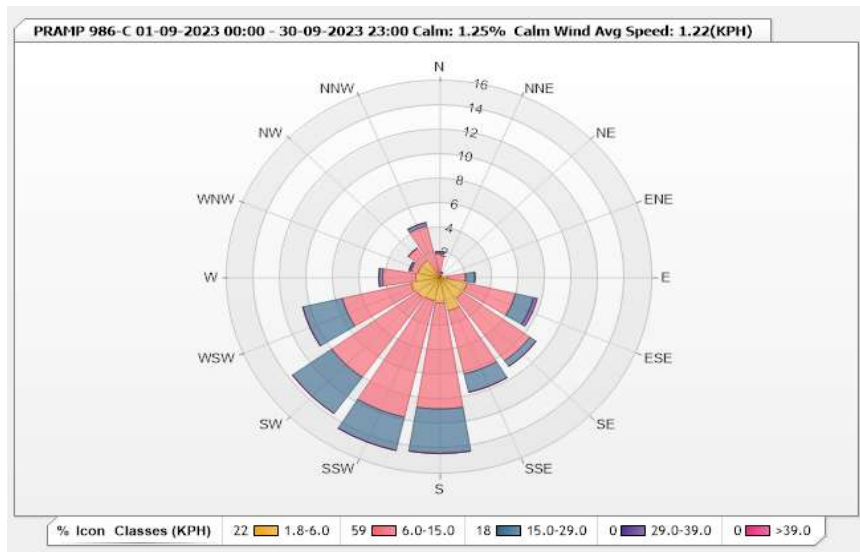


Station: PRAMP 986-C Monitor: WDS [KPH] Monthly: 09-2023

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

Calm (WS<1.8kph): 1.25%      Valid Data: 99.86%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.14	1.81	0.14	0	0	2.09
NNE	0	0.42	0	0	0	0.42
NE	0	0.14	0	0	0	0.14
ENE	0	0	0	0	0	0
E	0.56	1.39	0.7	0	0	2.65
ESE	2.09	3.76	1.39	0.28	0	7.52
SE	2.09	6.26	0.56	0	0	8.91
SSE	2.78	5.29	1.53	0	0	9.6
S	2.09	8.62	3.62	0	0	14.33
SSW	1.95	9.74	2.78	0	0	14.47
SW	2.09	7.93	3.62	0	0	13.64
WSW	2.23	5.29	3.06	0	0	10.58
W	1.81	2.5	0.28	0	0	4.59
WNW	1.67	0.56	0.14	0	0	2.37
NW	1.67	1.25	0	0	0	2.92
NNW	0.42	3.89	0.28	0	0	4.59
Summary	21.59	58.85	18.1	0.28	0	98.82



Peace River Area Monitoring Program

986-C Station - September 2023

Summary of Hourly Averages

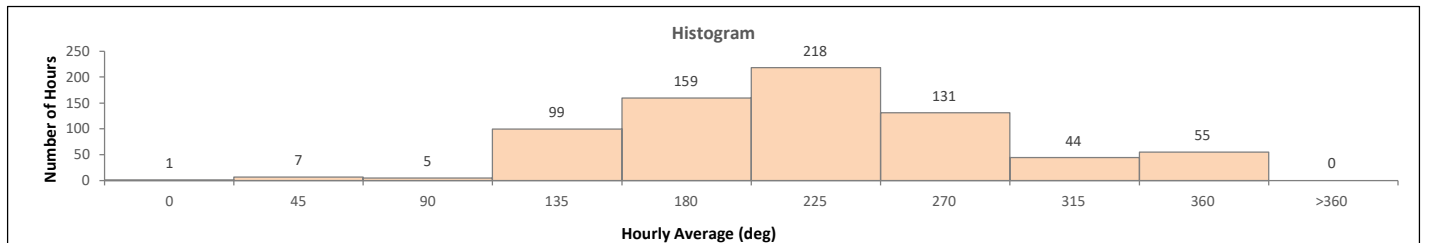
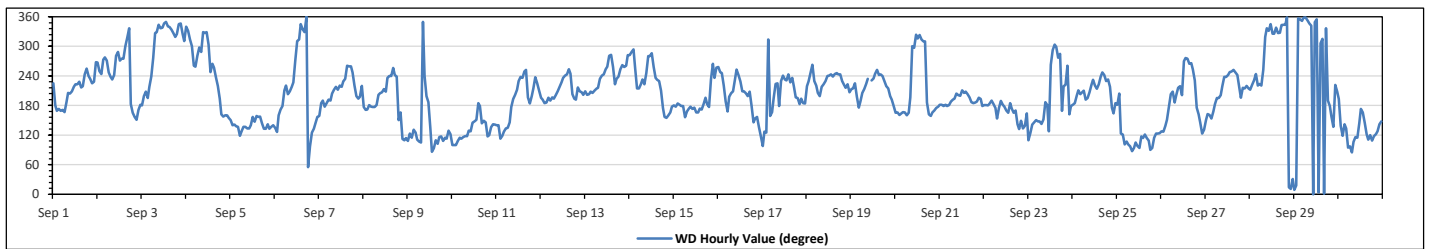
WIND DIRECTION (VWD) in sector

Monthly Average:	196 (SSW) degree	Hours in Service:	720
		Hours of Data:	719
		Hours of Missing Data:	1
		Hours of Calibration:	0
		Operational Uptime:	99.9

Day	Hourly Period Starting at (MST)																							Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Sep 1	SW	S	SSE	S	SSE	S	SSE	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	W	218	SW
Sep 2	W	WSW	WSW	W	W	W	WSW	SW	SW	WSW	W	WNW	W	W	W	WNW	NW	NNW	S	SSE	SSE	SSE	S	S	238	SW
Sep 3	S	SSW	SSW	SSW	SW	WSW	W	NW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NW	NW	NW	326	NW
Sep 4	NNW	NNW	NW	WNW	W	WSW	W	WNW	NNW	NNW	NNW	NNW	WSW	W	WSW	SW	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSE	240	WSW
Sep 5	SSE	SE	SE	SE	SE	ESE	SE	SE	SE	SE	SE	SE	SSE	SE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	143	SE
Sep 6	SE	SE	SSE	S	S	SSW	SW	SSW	SSW	SSW	SW	W	NW	NW	NNW	NNW	NNW	N	NE	E	SE	SE	SE	SE	188	S
Sep 7	SSE	S	S	S	S	S	S	S	SSW	SSW	SW	SSW	SW	SW	SW	W	WSW	WSW	WSW	SW	SSW	SSW	SSW	SSW	215	SSW
Sep 8	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	193	S
Sep 9	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	N	WSW	SSW	S	SE	E	E	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	116	ESE
Sep 10	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SSE	S	S	SE	SSE	SSE	ESE	ESE	ESE	ESE	ESE	133	SE
Sep 11	SE	SE	ESE	ESE	SE	SE	SE	SE	S	SSW	SSW	SW	SW	SW	WSW	WSW	SSW	S	SSW	SSW	SW	SW	SSW	SSW	189	S
Sep 12	SSW	S	S	S	SSW	S	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	SSW	S	SW	SSW	SSW	SSW	SSW	SSW	211	SSW
Sep 13	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	238	SW
Sep 14	W	WNW	WNW	WSW	SSW	SSW	SW	SW	WSW	W	W	WNW	WSW	SW	SW	SSW	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	214	SSW
Sep 15	S	S	S	S	S	SSE	SSE	S	S	S	SSE	SSE	S	S	SSE	S	S	SSW	S	SW	W	SW	WSW	SSW	181	S
Sep 16	WSW	WSW	WSW	SW	S	SSE	SSW	SSW	SSW	SW	WSW	WSW	SW	SSW	SSW	SSW	SSW	SSW	S	SE	SSE	SSE	SE	ESE	203	SSW
Sep 17	E	SE	SE	NW	SSE	SSE	SSW	SW	SW	S	SW	WSW	SW	WSW	SW	SW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	209	SSW
Sep 18	SW	SW	WSW	W	SW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	231	SW
Sep 19	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SW	SW	K	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	S	S	223	SW	
Sep 20	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	WNW	WNW	NW	NW	NW	NW	NW	S	SSE	SSE	SSE	SSE	S	S	181	S
Sep 21	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	SSW	S	S	SSW	193	S
Sep 22	S	S	S	S	S	S	S	SSE	S	S	S	S	SSE	SSE	S	S	SSE	SSE	SE	SE	SSE	SE	SE	SSE	168	SSE
Sep 23	ESE	ESE	SE	SE	SSE	SE	SE	SSE	S	S	SE	W	WNW	WNW	WNW	W	WNW	SSE	SW	SW	W	SSE	S	194	SSW	
Sep 24	S	S	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SW	SW	SSW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	S	SSE	S	212	SSW
Sep 25	S	SSW	ESE	ESE	E	ESE	E	E	E	E	ESE	E	E	ESE	ESE	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	112	ESE
Sep 26	SE	SE	SE	SSE	S	SSW	SSW	S	SSW	SW	SW	SSW	W	W	W	W	W	WSW	SW	S	SSE	SE	ESE	SE	197	SSW
Sep 27	SSE	SSE	SSE	SSE	SSE	S	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SW	SSW	SSW	SSW	220	SW
Sep 28	SSW	SW	SW	WSW	SW	SW	WSW	NW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	324	NW
Sep 29	N	NNE	N	N	N	N	N	N	NNW	NNW	N	NNW	N	N	NW	NW	N	NNW	S	SSE	SE	SW	SSW	353	N	
Sep 30	S	SE	ESE	SE	SE	E	E	E	ESE	ESE	ESE	S	SSE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	128	SE

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

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



**Peace River Area Monitoring Program**

**986-C Station - September 2023**

**Summary of Hourly Averages**

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

<b>WIND SPEED</b>					
Maximum Hourly Value:	31.4	kph	on Sep 25 at hr 14	Hours in Service:	720
Maximum Daily Value:	18.9	kph	on Sep 21	Hours of Data:	719
Minimum Hourly Value:	0.2	kph	on Sep 9 at hr 8	Hours of Missing Data:	1
Minimum Daily Value:	5.4	kph	on Sep 9	Hours of Calibration:	0
Monthly Average:	6.1	kph		Operational Uptime:	99.9

<b>WIND DIRECTION</b>	
Monthly Average:	196 degree (SSW)

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	3.2	4.0	6.5	5.9	7.2	7.0	8.2	8.4	14.7	18.4	21.4	26.5	26.6	25.9	23.4	23.5	20.4	15.3	15.2	15.6	18.1	14.7	14.3	6.6	3.2	26.6	14.6
Sep 2	5.1	3.5	5.6	6.2	6.3	5.4	4.5	6.7	5.2	4.2	5.8	8.1	8.3	8.6	6.7	6.6	5.2	1.6	1.1	9.5	9.0	11.1	11.9	12.7	1.1	12.7	6.6
Sep 3	6.7	5.9	8.4	7.7	4.4	3.3	3.6	6.2	4.6	6.4	8.2	10.5	16.8	15.8	15.5	14.0	11.1	7.5	4.1	6.0	13.4	8.1	3.5	6.3	3.3	16.8	8.3
Sep 4	10.6	10.2	6.8	4.3	3.6	3.4	3.6	4.1	4.5	6.9	6.5	7.7	3.8	3.7	3.9	4.0	5.8	8.3	8.2	9.7	11.8	14.8	14.8	13.3	3.4	14.8	7.2
Sep 5	12.1	9.3	9.6	9.1	8.6	6.7	8.3	13.0	10.0	9.3	13.8	12.1	16.3	17.8	15.1	15.9	13.4	7.8	7.6	6.1	6.1	6.6	8.5	7.7	6.1	17.8	10.5
Sep 6	5.5	5.1	3.8	3.5	3.2	5.0	5.1	5.5	4.6	6.1	7.0	5.8	7.2	7.5	7.4	7.3	4.5	6.5	6.7	7.9	6.2	6.9	6.4	6.1	3.2	7.9	5.9
Sep 7	6.1	9.0	6.6	7.6	6.6	6.4	9.3	8.3	10.8	11.3	10.3	10.2	13.2	14.1	9.9	9.9	10.8	10.8	7.6	6.4	6.2	6.1	5.8	2.7	2.7	14.1	8.6
Sep 8	7.0	9.2	9.6	8.8	6.4	9.6	9.8	9.2	10.8	12.0	11.1	10.4	12.2	9.3	6.1	4.6	3.0	4.2	1.3	2.9	5.0	2.7	5.5	3.8	1.3	12.2	7.3
Sep 9	5.0	3.9	4.5	4.4	4.8	4.7	3.7	3.0	0.2	2.6	3.2	3.2	3.9	4.3	7.2	6.7	8.5	8.8	10.8	12.4	11.9	6.4	2.9	2.9	0.2	12.4	5.4
Sep 10	6.1	6.7	10.3	9.5	7.1	8.4	7.6	6.2	7.7	6.2	6.0	6.8	9.4	11.3	12.3	11.2	8.5	13.4	8.7	14.5	14.4	16.6	13.7	12.9	6.0	16.6	9.8
Sep 11	14.5	11.4	6.4	8.2	7.9	8.1	9.6	9.7	12.0	13.0	10.7	12.2	9.5	9.2	12.1	11.6	7.2	6.5	7.0	10.0	10.5	6.6	6.0	8.0	6.0	14.5	9.5
Sep 12	8.0	8.7	8.3	10.1	6.9	6.9	7.2	7.7	8.8	9.6	11.0	9.7	10.4	11.0	12.6	10.1	6.2	4.8	6.7	7.3	9.1	7.3	8.0	13.6	4.8	13.6	8.8
Sep 13	12.9	15.1	16.6	15.7	11.6	13.0	12.4	17.3	18.0	23.6	27.0	22.7	22.2	19.3	13.1	9.0	5.7	7.3	7.8	8.4	7.2	7.9	7.4	4.8	4.8	27.0	13.6
Sep 14	3.2	3.8	5.1	3.9	5.3	10.1	7.1	9.0	8.1	5.6	5.7	7.2	7.2	9.3	11.5	11.5	12.5	10.1	7.0	11.3	12.0	14.1	15.1	17.6	3.2	17.6	8.9
Sep 15	19.8	16.8	15.4	12.4	16.7	12.3	7.1	5.6	12.1	11.3	12.1	15.5	20.5	23.7	23.9	26.6	24.7	20.2	15.9	16.6	8.3	5.6	4.1	6.8	4.1	26.6	14.8
Sep 16	7.6	8.0	9.1	7.1	5.0	10.5	8.9	11.4	12.5	14.0	10.6	10.2	10.4	14.2	14.4	14.8	13.1	9.6	9.3	9.0	11.5	15.4	7.0	7.4	5.0	15.4	10.5
Sep 17	10.1	7.7	6.7	1.6	1.9	5.1	5.1	5.4	5.7	1.9	12.7	16.4	15.9	11.9	15.0	20.5	19.8	12.0	13.2	13.6	13.3	12.6	10.6	11.7	1.6	20.5	10.4
Sep 18	6.3	11.8	18.6	16.5	12.9	18.5	20.8	23.2	17.8	17.7	21.5	21.4	20.5	21.6	23.3	22.7	19.6	18.0	24.7	18.8	14.7	14.8	13.8	12.5	6.3	24.7	18.0
Sep 19	14.2	14.6	10.9	8.8	8.1	7.0	8.8	9.9	13.2	13.5	K	17.6	15.6	14.3	12.1	13.8	13.8	10.5	7.0	7.7	6.2	5.8	5.6	5.6	5.6	17.6	10.6
Sep 20	7.4	8.5	6.6	7.3	4.6	5.2	3.4	3.6	1.7	3.0	2.0	2.4	2.8	6.1	7.1	5.6	3.0	1.9	6.9	7.7	9.5	9.4	13.4	13.7	1.7	13.7	6.0
Sep 21	11.2	13.3	18.8	19.4	20.0	19.1	17.5	17.2	16.8	23.1	23.2	21.1	21.0	22.9	23.4	22.6	21.2	20.5	20.6	19.5	16.5	16.9	14.9	13.4	11.2	23.4	18.9
Sep 22	10.5	11.0	13.5	10.5	9.0	11.4	7.3	4.6	10.7	9.8	12.3	15.2	12.8	17.1	18.6	17.3	20.1	18.6	12.3	14.3	16.3	15.3	13.3	3.6	3.6	20.1	12.7
Sep 23	4.3	4.6	8.5	4.0	7.5	6.3	4.9	5.4	7.1	4.0	1.9	1.3	3.6	5.4	4.8	5.6	5.1	3.2	3.3	19.1	23.1	6.1	7.0	15.2	1.3	23.1	6.7
Sep 24	18.0	13.7	13.8	13.7	11.9	12.7	13.0	8.8	11.9	16.9	18.6	22.2	21.9	22.7	18.6	16.0	11.3	9.3	10.1	9.3	6.6	6.4	8.5	5.5	5.5	22.7	13.4
Sep 25	6.4	7.1	2.7	4.1	6.2	6.5	9.9	8.7	9.0	16.4	21.0	21.6	20.8	30.9	31.4	27.6	26.0	22.5	15.2	19.5	27.3	26.6	24.5	22.9	2.7	31.4	17.3
Sep 26	17.6	11.1	12.1	11.3	10.1	7.4	9.1	10.0	6.9	8.7	10.4	5.0	7.3	9.1	10.8	10.4	9.3	7.3	4.0	1.2	5.8	5.0	2.7	3.5	1.2	17.6	8.2
Sep 27	5.8	3.6	6.0	3.4	5.4	11.9	9.5	9.8	12.4	14.7	20.5	20.4	19.8	16.2	12.2	11.8	10.1	8.5	8.8	7.8	7.5	8.4	6.2	5.7	3.4	20.5	10.3
Sep 28	5.2	6.7	6.9	6.5	6.7	5.0	4.1	2.3	6.0	8.8	8.0	7.0	6.1	6.3	8.4	8.4	7.8	6.9	6.7	7.4	7.7	9.9	9.7	7.6	2.3	9.9	6.9
Sep 29	7.7	6.8	6.4	8.9	8.0	9.1	9.7	7.0	6.6	8.6	9.3	7.4	8.6	6.5	3.5	4.2	5.1	2.1	1.9	4.3	5.1	1.0	2.5	2.2	1.0	9.7	5.9
Sep 30	2.8	3.3	5.5	2.5	3.8	4.2	4.7	5.2	6.6	8.9	8.8	8.7	9.1	10.6	10.5	12.1	14.7	12.9	13.1	15.3	15.5	15.9	14.1	12.8	2.5	15.9	9.2

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

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

842-B STATION



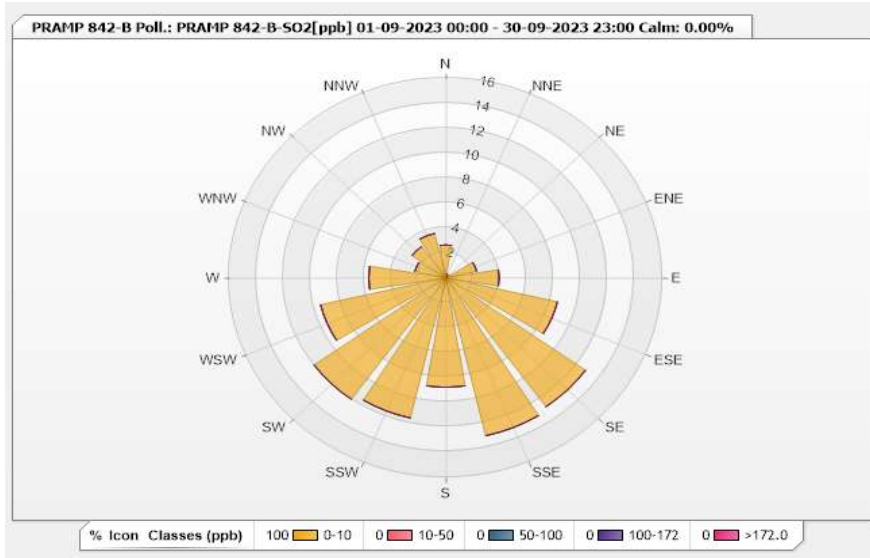


Station: PRAMP 842-B Poll.: PRAMP 842-B-SO2[ppb] Monthly: 09-2023

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

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

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	2.63	0	0	0	0	2.63
NNE	0.29	0	0	0	0	0.29
NE	0.15	0	0	0	0	0.15
ENE	2.34	0	0	0	0	2.34
E	3.94	0	0	0	0	3.94
ESE	8.47	0	0	0	0	8.47
SE	12.7	0	0	0	0	12.7
SSE	12.99	0	0	0	0	12.99
S	8.76	0	0	0	0	8.76
SSW	11.53	0	0	0	0	11.53
SW	11.97	0	0	0	0	11.97
WSW	9.49	0	0	0	0	9.49
W	5.69	0	0	0	0	5.69
WNW	2.34	0	0	0	0	2.34
NW	3.07	0	0	0	0	3.07
NNW	3.65	0	0	0	0	3.65
Summary	100	0	0	0	0	100



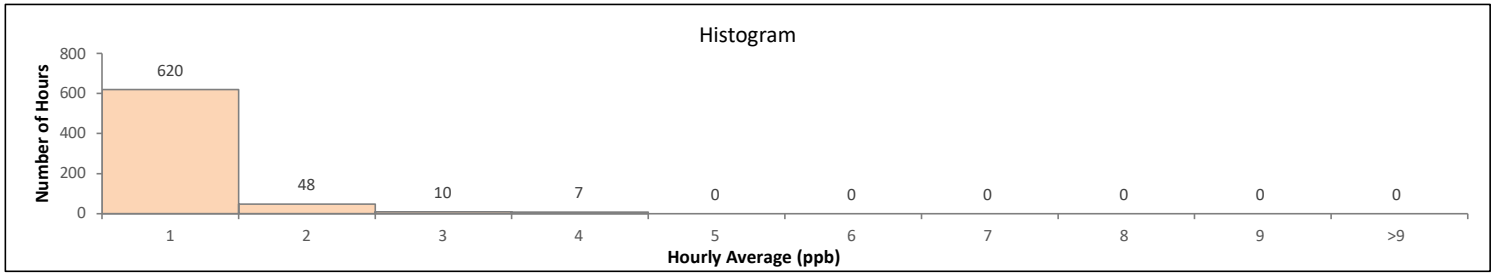
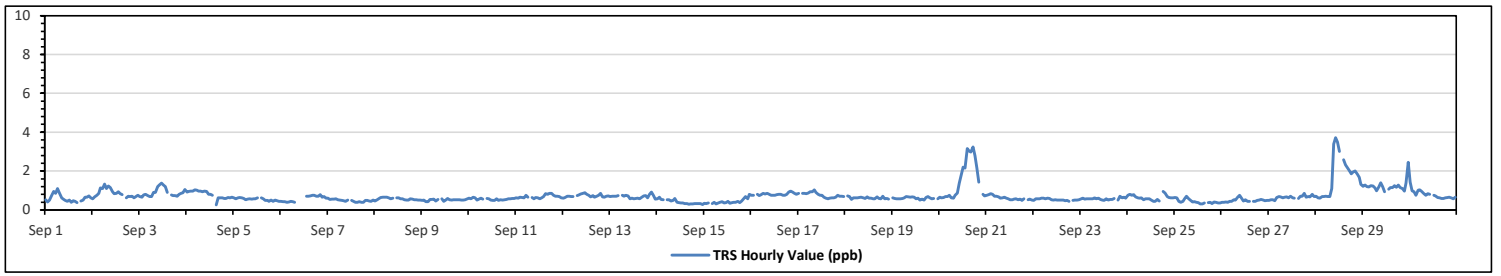
**Peace River Area Monitoring Program**  
**842-B Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL REDUCED SULPHUR (TRS) in ppb**

Maximum Hourly Value:	3.72	ppb	on Sep 28 at hr 10	Hours in Service:	720
Maximum Daily Value:	1.73	ppb	on Sep 28	Hours of Data:	685
Minimum Hourly Value:	0.26	ppb	on Sep 4 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	0.41	ppb	on Sep 14	Hours of Calibration:	35
Monthly Average:	0.71	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	
Sep 1	0.52	0.41	0.51	0.75	0.95	0.86	1.11	0.87	0.63	0.55	0.49	0.44	0.51	0.38	0.47	0.43	0.37	S	0.46	0.5	0.65	0.65	0.72	0.63	0.37	1.11	0.60	
Sep 2	0.56	0.67	0.75	0.85	1.13	1.09	1.32	1.1	1.23	1.15	0.94	0.83	0.86	0.94	0.83	0.78	S	0.62	0.7	0.69	0.7	0.62	0.68	0.74	0.56	1.32	0.86	
Sep 3	0.68	0.66	0.77	0.79	0.73	0.69	0.69	0.9	0.9	1.19	1.28	1.37	1.28	1.19	0.9	S	0.77	0.73	0.73	0.7	0.79	0.85	0.89	1.05	0.66	1.37	0.89	
Sep 4	0.92	0.95	0.96	0.96	1.03	1.02	0.98	0.97	0.94	0.97	0.95	0.79	0.81	0.74	S	0.26	0.62	0.63	0.61	0.59	0.59	0.64	0.62	0.65	0.26	1.03	0.79	
Sep 5	0.61	0.58	0.62	0.64	0.61	0.59	0.52	0.55	0.56	0.55	0.57	0.56	0.63	S	0.61	0.57	0.49	0.49	0.45	0.5	0.44	0.5	0.47	0.45	0.44	0.64	0.55	
Sep 6	0.45	0.42	0.42	0.4	0.41	0.45	0.42	0.39	C	C	C	C	C	C	0.71	0.7	0.72	0.76	0.76	0.7	0.71	0.78	0.66	0.68	0.6	0.39	0.78	0.59
Sep 7	0.6	0.54	0.55	0.55	0.56	0.53	0.5	0.49	0.47	0.45	0.51	S	0.48	0.45	0.4	0.39	0.42	0.39	0.39	0.49	0.49	0.46	0.44	0.51	0.39	0.60	0.48	
Sep 8	0.46	0.52	0.59	0.64	0.65	0.65	0.66	0.63	0.57	0.6	S	0.56	0.62	0.61	0.57	0.58	0.52	0.5	0.51	0.57	0.55	0.52	0.52	0.5	0.51	0.46	0.66	0.57
Sep 9	0.49	0.5	0.42	0.42	0.54	0.54	0.55	0.46	0.54	S	0.56	0.44	0.5	0.59	0.53	0.5	0.52	0.52	0.53	0.53	0.51	0.51	0.53	0.56	0.42	0.59	0.51	
Sep 10	0.6	0.58	0.66	0.63	0.51	0.55	0.6	0.55	S	0.59	0.57	0.51	0.49	0.49	0.56	0.48	0.53	0.51	0.53	0.54	0.56	0.58	0.59	0.59	0.48	0.66	0.56	
Sep 11	0.61	0.6	0.65	0.64	0.63	0.74	0.65	S	0.64	0.57	0.64	0.62	0.56	0.63	0.69	0.83	0.79	0.86	0.86	0.74	0.71	0.71	0.68	0.61	0.56	0.86	0.68	
Sep 12	0.6	0.64	0.71	0.7	0.69	0.68	S	0.73	0.77	0.82	0.85	0.89	0.79	0.76	0.67	0.73	0.66	0.7	0.76	0.85	0.67	0.66	0.71	0.72	0.60	0.89	0.73	
Sep 13	0.68	0.7	0.71	0.73	S	0.75	0.71	0.75	0.72	0.58	0.6	0.58	0.59	0.6	0.56	0.66	0.72	0.73	0.62	0.81	0.91	0.74	0.55	0.55	0.55	0.91	0.68	
Sep 14	0.56	0.66	0.54	0.53	S	0.52	0.53	0.46	0.49	0.59	0.4	0.37	0.36	0.35	0.32	0.32	0.29	0.31	0.31	0.33	0.32	0.33	0.32	0.28	0.28	0.66	0.41	
Sep 15	0.34	0.33	0.35	S	0.33	0.39	0.31	0.35	0.38	0.42	0.35	0.37	0.44	0.34	0.37	0.4	0.38	0.45	0.37	0.46	0.58	0.69	0.58	0.79	0.31	0.79	0.42	
Sep 16	0.74	0.76	S	0.8	0.73	0.78	0.86	0.82	0.86	0.79	0.76	0.75	0.76	0.78	0.79	0.81	0.76	0.79	0.92	0.96	0.92	0.86	0.81	0.73	0.96	0.81		
Sep 17	0.86	S	0.86	0.85	0.83	0.87	0.93	0.94	1.04	0.9	0.81	0.76	0.74	0.65	0.6	0.56	0.6	0.63	0.61	0.65	0.74	0.7	0.71	0.69	0.56	1.04	0.76	
Sep 18	S	0.72	0.69	0.54	0.63	0.61	0.63	0.64	0.66	0.61	0.59	0.67	0.6	0.6	0.58	0.56	0.67	0.59	0.57	0.7	0.58	0.59	0.55	S	0.54	0.72	0.62	
Sep 19	0.61	0.59	0.57	0.57	0.58	0.59	0.61	0.68	0.67	0.66	0.67	0.66	0.58	0.6	0.51	0.55	0.5	0.64	0.68	0.61	0.58	S	0.58	0.50	0.68	0.60		
Sep 20	0.66	0.62	0.64	0.69	0.68	0.74	0.63	0.6	0.75	0.87	1.37	1.79	2.2	2.15	3.15	3.03	2.97	3.25	2.79	2.15	1.43	S	0.79	0.72	0.60	3.25	1.51	
Sep 21	0.76	0.78	0.83	0.79	0.7	0.7	0.67	0.6	0.63	0.65	0.6	0.58	0.52	0.53	0.55	0.58	0.53	0.55	0.48	0.57	S	0.53	0.55	0.51	0.48	0.83	0.62	
Sep 22	0.49	0.56	0.56	0.58	0.6	0.6	0.56	0.6	0.59	0.53	0.5	0.52	0.5	0.51	0.5	0.5	0.47	0.49	0.45	S	0.48	0.5	0.51	0.53	0.45	0.60	0.53	
Sep 23	0.55	0.6	0.55	0.57	0.58	0.58	0.56	0.61	0.56	0.6	0.54	0.51	0.49	0.58	0.51	0.54	0.54	0.59	S	0.51	0.7	0.62	0.66	0.6	0.49	0.70	0.57	
Sep 24	0.75	0.79	0.75	0.78	0.67	0.63	0.6	0.61	0.52	0.58	0.56	0.56	0.51	0.43	0.43	0.54	0.46	S	0.95	0.87	0.68	0.64	0.61	0.62	0.43	0.95	0.63	
Sep 25	0.64	0.61	0.45	0.39	0.45	0.57	0.7	0.56	0.48	0.41	0.42	0.39	0.37	0.31	0.31	0.35	S	0.37	0.38	0.33	0.41	0.4	0.36	0.35	0.31	0.70	0.44	
Sep 26	0.4	0.38	0.41	0.39	0.43	0.44	0.52	0.5	0.66	0.74	0.6	0.46	0.52	0.44	0.44	S	0.43	0.44	0.48	0.5	0.54	0.5	0.47	0.49	0.38	0.74	0.49	
Sep 27	0.48	0.53	0.52	0.47	0.64	0.68	0.67	0.63	0.65	0.67	0.61	0.7	0.61	0.6	S	0.59	0.71	0.7	0.86	0.66	0.68	0.67	0.8	0.69	0.47	0.86	0.64	
Sep 28	0.7	0.63	0.6	0.68	0.69	0.71	0.69	0.69	1.09	3.4	3.72	3.49	3.01	S	2.58	2.32	2.17	2.02	1.85	1.96	2	1.84	1.67	1.31	0.60	3.72	1.73	
Sep 29	1.22	1.28	1.2	1.18	1.25	1.23	1.13	0.99	1.18	1.4	1.2	0.94	S	1.06	1.15	1.16	1.24	1.17	1.28	1.15	1.1	0.98	1.38	2.46	0.94	2.46	1.23	
Sep 30	1.43	0.99	0.94	0.75	1.02	1.03	0.95	0.84	0.75	0.84	0.79	S	0.74	0.72	0.64	0.62	0.59	0.59	0.61	0.64	0.66	0.63	0.57	0.65	0.57	1.43	0.78	
Diurnal Maximum	1.43	1.28	1.20	1.18	1.25	1.23	1.32	1.10	1.23	3.40	3.72	3.49	3.01	2.15	3.15	3.03	2.97	3.25	2.79	2.15	2.00	1.84	1.67	2.46				
Diurnal Average	0.65	0.64	0.65	0.66	0.69	0.69	0.70	0.67	0.71	0.82	0.80	0.78	0.75	0.67	0.75	0.72	0.73	0.75	0.74	0.72	0.71	0.67	0.68	0.70				

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

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

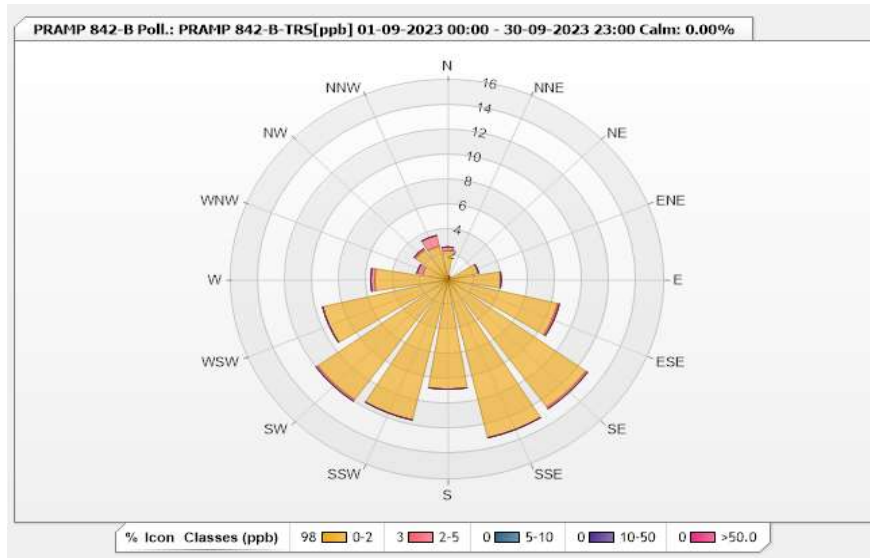


Station: PRAMP 842-B Poll.: PRAMP 842-B-TRS[ppb] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	2.34	0.29	0	0	0	2.63
NNE	0.29	0	0	0	0	0.29
NE	0.15	0	0	0	0	0.15
ENE	2.34	0	0	0	0	2.34
E	3.94	0	0	0	0	3.94
ESE	8.32	0.15	0	0	0	8.47
SE	12.55	0.15	0	0	0	12.7
SSE	12.99	0	0	0	0	12.99
S	8.76	0	0	0	0	8.76
SSW	11.53	0	0	0	0	11.53
SW	11.82	0.15	0	0	0	11.97
WSW	9.49	0	0	0	0	9.49
W	5.4	0.29	0	0	0	5.69
WNW	1.9	0.44	0	0	0	2.34
NW	2.92	0.15	0	0	0	3.07
NNW	2.77	0.88	0	0	0	3.65
Summary	97.51	2.5	0	0	0	100



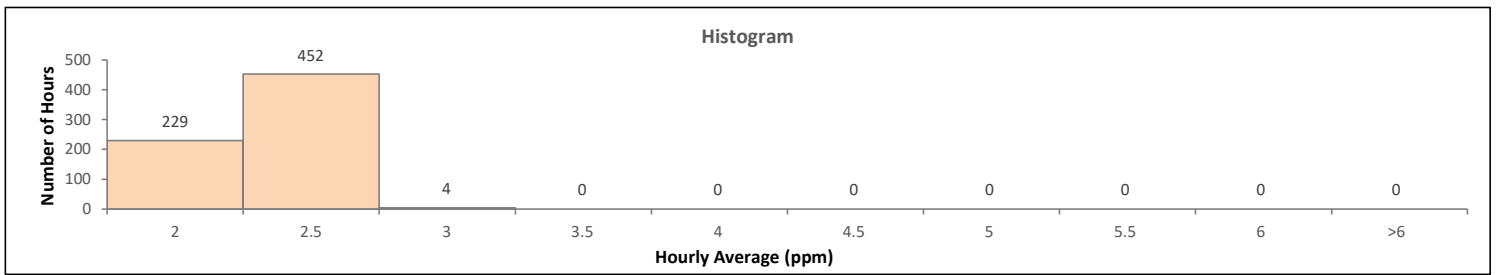
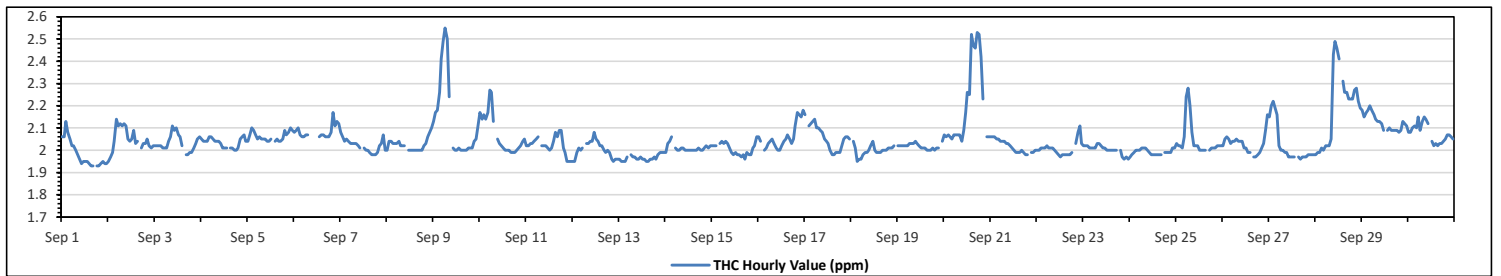
**Peace River Area Monitoring Program**  
**842-B Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL HYDROCARBONS (THC) in ppm**

Maximum Hourly Value:	2.55 ppm	on Sep 9 at hr 6	Hours in Service:	720
Maximum Daily Value:	2.20 ppm	on Sep 20	Hours of Data:	685
Minimum Hourly Value:	1.93 ppm	on Sep 1 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	1.97 ppm	on Sep 13	Hours of Calibration:	35
Monthly Average:	2.04 ppm		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	2.06	2.06	2.13	2.08	2.05	2.02	2.02	2.00	1.98	1.96	1.94	1.95	1.95	1.95	1.94	1.93	1.93	S	1.93	1.93	1.94	1.95	1.94	1.94	1.93	2.13	1.98
Sep 2	1.95	1.97	1.99	2.04	2.14	2.11	2.12	2.11	2.12	2.11	2.05	2.04	2.05	2.09	2.03	2.04	S	2.01	2.03	2.03	2.05	2.02	2.01	2.02	1.95	2.14	2.05
Sep 3	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.04	2.06	2.11	2.09	2.10	2.07	2.06	2.02	S	1.98	1.98	1.99	1.99	2.01	2.03	2.05	2.06	1.98	2.11	2.03
Sep 4	2.05	2.04	2.04	2.04	2.06	2.06	2.05	2.04	2.04	2.04	2.03	2.01	2.01	2.01	S	2.01	2.01	2.00	2.00	2.01	2.05	2.06	2.07	2.04	2.00	2.07	2.03
Sep 5	2.04	2.07	2.10	2.09	2.07	2.05	2.06	2.05	2.05	2.05	2.04	2.04	2.05	S	2.04	2.05	2.04	2.04	2.05	2.09	2.07	2.08	2.10	2.09	2.04	2.10	2.06
Sep 6	2.08	2.09	2.10	2.07	2.06	2.06	2.07	2.07	C	C	C	C	C	2.06	2.07	2.07	2.06	2.06	2.06	2.08	2.17	2.11	2.13	2.12	2.06	2.17	2.08
Sep 7	2.08	2.06	2.04	2.05	2.04	2.03	2.03	2.03	2.03	2.02	2.01	S	2.01	2.00	2.00	1.99	1.98	1.98	1.99	2.02	2.03	2.07	2.00	1.98	2.08	2.02	
Sep 8	2.00	2.04	2.04	2.03	2.03	2.03	2.04	2.02	2.02	2.02	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.03	2.06	2.08	2.10	2.00	2.10	2.02
Sep 9	2.13	2.17	2.18	2.26	2.41	2.49	2.55	2.50	2.24	S	2.01	2.00	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.04	2.05	2.11	2.00	2.55	2.14	
Sep 10	2.17	2.14	2.16	2.14	2.17	2.27	2.26	2.13	S	2.05	2.03	2.02	2.01	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.01	2.02	2.04	2.05	1.99	2.27	2.07
Sep 11	2.02	2.02	2.03	2.03	2.04	2.05	2.06	S	2.02	2.02	2.02	2.01	2.00	2.01	2.04	2.08	2.06	2.09	2.09	2.01	1.99	1.95	1.95	1.95	1.95	2.09	2.02
Sep 12	1.95	1.95	1.99	2.01	2.00	2.01	S	2.03	2.03	2.04	2.04	2.08	2.05	2.04	2.02	2.02	2.00	1.99	2.00	1.99	1.96	1.95	1.96	1.96	1.95	2.08	2.00
Sep 13	1.96	1.95	1.95	1.95	1.97	S	1.98	1.97	1.97	1.96	1.96	1.97	1.96	1.96	1.95	1.95	1.96	1.96	1.97	1.96	1.98	1.99	1.99	1.99	1.95	1.99	1.97
Sep 14	1.99	2.03	2.04	2.06	S	2.01	2.00	2.00	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.00	2.01	2.02	2.01	2.02	1.99	2.06	2.01
Sep 15	2.02	2.02	2.02	S	2.03	2.04	2.03	2.04	2.03	2.01	1.99	1.98	1.99	1.98	1.98	1.97	1.98	1.96	1.99	1.98	1.98	2.01	2.02	2.06	1.96	2.06	2.00
Sep 16	2.06	2.04	S	2.00	2.01	2.03	2.04	2.05	2.03	2.01	2.00	2.00	2.02	2.04	2.05	2.07	2.05	2.03	2.05	2.11	2.17	2.16	2.15	2.18	2.00	2.18	2.06
Sep 17	2.16	S	2.11	2.12	2.13	2.14	2.10	2.10	2.09	2.08	2.05	2.04	2.03	2.00	1.98	1.98	1.99	1.99	1.99	2.02	2.05	2.06	2.06	2.05	1.98	2.16	2.06
Sep 18	S	2.04	2.01	1.95	1.96	1.96	1.98	1.99	2.00	2.02	2.04	2.00	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	S	1.95	2.04	2.00
Sep 19	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.04	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.01	2.00	2.01	2.01	S	2.04	2.00	2.04	2.02
Sep 20	2.07	2.06	2.07	2.06	2.05	2.07	2.07	2.07	2.07	2.04	2.09	2.17	2.26	2.25	2.52	2.47	2.46	2.53	2.52	2.42	2.23	S	2.06	2.06	2.04	2.53	2.20
Sep 21	2.06	2.06	2.06	2.05	2.05	2.04	2.04	2.04	2.03	2.03	2.02	2.01	2.00	1.99	1.99	1.99	2.00	1.99	1.98	1.98	S	1.99	1.99	2.00	1.98	2.06	2.02
Sep 22	2.00	2.00	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	1.99	1.98	1.97	1.98	1.98	1.98	1.98	1.98	1.99	S	2.03	2.08	2.11	2.03	1.97	2.11	2.01
Sep 23	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.03	2.03	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	S	2.00	1.97	1.96	1.97	1.96	1.96	2.03	2.00
Sep 24	1.97	1.98	1.99	2.00	2.00	2.00	2.01	2.01	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.99	1.99	1.99	2.01	2.01	1.97	2.01	1.99
Sep 25	2.03	2.02	2.02	2.01	2.06	2.24	2.28	2.20	2.08	2.02	2.02	2.02	2.00	2.00	2.00	2.00	S	2.00	2.01	2.01	2.01	2.02	2.02	2.02	2.00	2.28	2.05
Sep 26	2.02	2.05	2.06	2.05	2.03	2.04	2.04	2.05	2.04	2.04	2.04	2.01	2.01	1.99	1.99	S	1.97	1.97	1.98	1.99	2.01	2.03	2.09	2.16	1.97	2.16	2.03
Sep 27	2.15	2.20	2.22	2.19	2.16	2.02	2.00	2.00	1.99	1.99	1.97	1.97	1.97	S	1.97	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.96	2.22	2.02
Sep 28	1.98	1.99	1.99	2.01	2.00	2.02	2.02	2.05	2.43	2.49	2.46	2.41	S	2.31	2.26	2.26	2.23	2.23	2.23	2.27	2.28	2.22	2.19	1.98	2.49	2.19	
Sep 29	2.18	2.15	2.17	2.18	2.20	2.18	2.16	2.14	2.13	2.13	2.12	2.09	S	2.09	2.10	2.09	2.09	2.09	2.09	2.08	2.09	2.13	2.12	2.11	2.08	2.20	2.13
Sep 30	2.08	2.08	2.10	2.11	2.10	2.15	2.09	2.13	2.15	2.14	2.12	S	2.04	2.02	2.03	2.02	2.03	2.03	2.04	2.05	2.07	2.07	2.06	2.05	2.02	2.15	2.08
Diurnal Maximum	2.18	2.20	2.22	2.26	2.41	2.49	2.55	2.50	2.24	2.43	2.49	2.46	2.41	2.25	2.52	2.47	2.46	2.53	2.52	2.42	2.27	2.28	2.22	2.19			
Diurnal Average	2.05	2.05	2.06	2.06	2.06	2.08	2.07	2.07	2.05	2.05	2.04	2.04	2.03	2.02	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.05	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
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

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

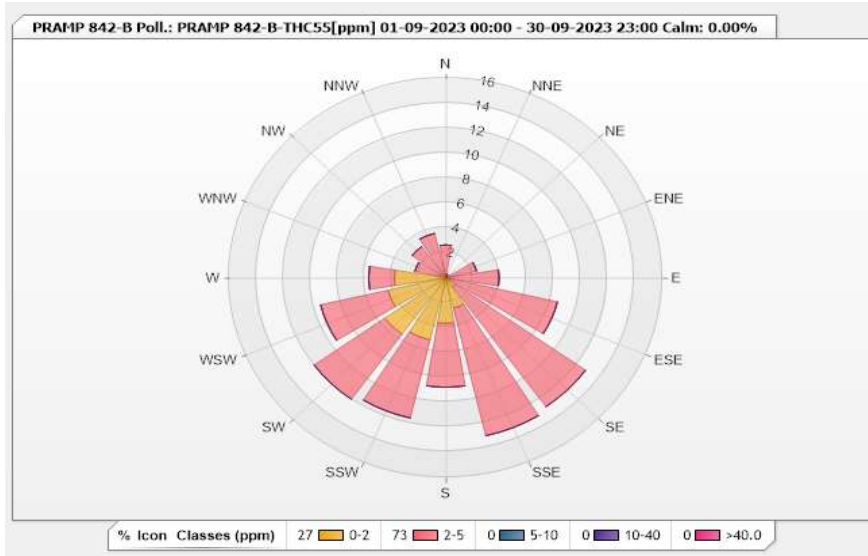


Station: PRAMP 842-B Poll.: PRAMP 842-B-THC55[ppm] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	2.63	0	0	0	2.63
NNE	0	0.29	0	0	0	0.29
NE	0	0.15	0	0	0	0.15
ENE	0	2.34	0	0	0	2.34
E	0	3.94	0	0	0	3.94
ESE	0.29	8.18	0	0	0	8.47
SE	0.88	11.82	0	0	0	12.7
SSE	2.48	10.51	0	0	0	12.99
S	3.65	5.11	0	0	0	8.76
SSW	5.11	6.42	0	0	0	11.53
SW	5.55	6.42	0	0	0	11.97
WSW	4.38	5.11	0	0	0	9.49
W	3.8	1.9	0	0	0	5.7
WNW	0.44	1.9	0	0	0	2.34
NW	0.29	2.77	0	0	0	3.06
NNW	0.29	3.36	0	0	0	3.65
Summary	27.16	72.85	0	0	0	100



**Peace River Area Monitoring Program**

**842-B Station - September 2023**

**Summary of Hourly Averages**

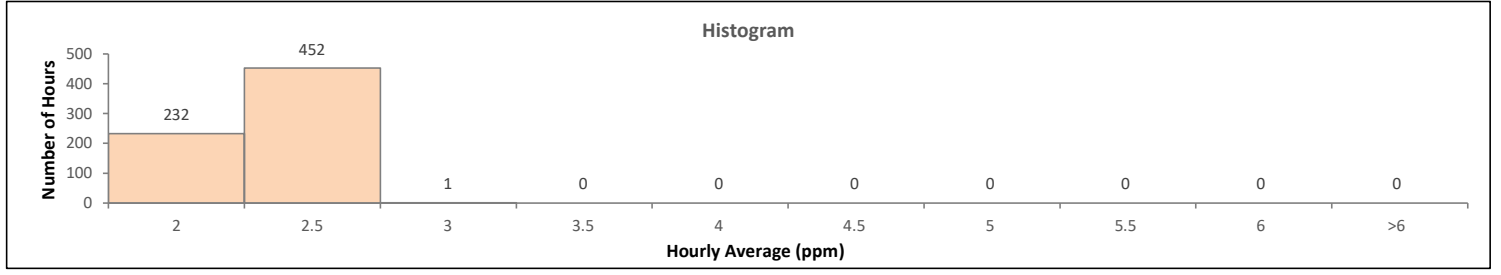
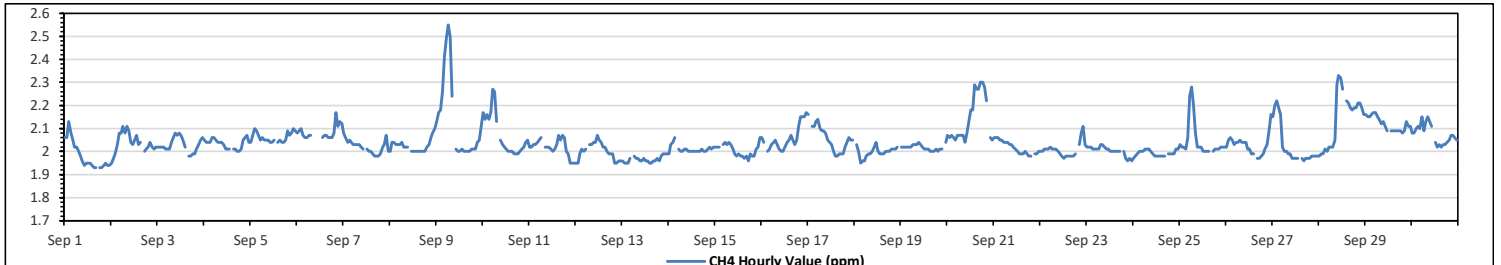
**METHANE (CH4) in ppm**

Maximum Hourly Value:	2.55 ppm	on Sep 9 at hr 6	Hours in Service:	720
Maximum Daily Value:	2.14 ppm	on Sep 20	Hours of Data:	685
Minimum Hourly Value:	1.93 ppm	on Sep 1 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	1.97 ppm	on Sep 13	Hours of Calibration:	35
Monthly Average:	2.04 ppm		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	2.06	2.06	2.13	2.08	2.05	2.02	2.02	2.00	1.98	1.96	1.94	1.95	1.95	1.95	1.94	1.93	1.93	S	1.93	1.93	1.94	1.95	1.94	1.94	1.93	2.13	1.98	
Sep 2	1.95	1.97	1.99	2.03	2.08	2.08	2.11	2.08	2.11	2.09	2.04	2.03	2.05	2.07	2.03	2.04	S	2.00	2.01	2.02	2.04	2.02	2.01	2.02	1.95	2.11	2.04	
Sep 3	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.04	2.06	2.08	2.07	2.08	2.07	2.05	2.02	S	1.98	1.98	1.99	1.99	2.01	2.03	2.05	2.06	1.98	2.08	2.03	
Sep 4	2.05	2.04	2.04	2.04	2.06	2.06	2.05	2.04	2.04	2.04	2.03	2.01	2.01	2.01	S	2.01	2.01	2.00	2.00	2.01	2.05	2.06	2.07	2.04	2.00	2.07	2.03	
Sep 5	2.04	2.07	2.10	2.09	2.07	2.05	2.06	2.05	2.05	2.05	2.04	2.04	2.05	S	2.04	2.05	2.04	2.04	2.05	2.09	2.07	2.08	2.10	2.09	2.04	2.10	2.06	
Sep 6	2.08	2.09	2.10	2.07	2.06	2.06	2.07	2.07	C	C	C	C	C	C	2.06	2.07	2.07	2.06	2.06	2.06	2.08	2.17	2.11	2.13	2.12	2.06	2.17	2.08
Sep 7	2.08	2.06	2.04	2.05	2.04	2.03	2.03	2.03	2.03	2.02	2.01	S	2.01	2.00	2.00	1.99	1.98	1.98	1.99	2.02	2.03	2.07	2.00	1.98	2.08	2.02	2.02	
Sep 8	2.00	2.04	2.04	2.03	2.03	2.03	2.04	2.02	2.02	2.02	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.03	2.06	2.08	2.10	2.00	2.10	2.02	
Sep 9	2.13	2.17	2.18	2.26	2.41	2.49	2.55	2.50	2.24	S	2.01	2.00	2.00	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.04	2.05	2.11	2.00	2.55	2.14	
Sep 10	2.17	2.14	2.16	2.14	2.17	2.27	2.26	2.13	S	2.05	2.03	2.02	2.01	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.01	2.02	2.04	2.05	1.99	2.27	2.07	
Sep 11	2.02	2.02	2.03	2.03	2.04	2.05	2.06	S	2.02	2.02	2.02	2.01	2.00	2.01	2.03	2.07	2.05	2.07	2.06	2.00	1.99	1.95	1.95	1.95	1.95	2.07	2.02	
Sep 12	1.95	1.95	1.99	2.01	2.00	2.01	S	2.03	2.03	2.04	2.04	2.04	2.07	2.05	2.04	2.02	2.02	2.00	1.99	1.99	1.99	1.95	1.95	1.96	1.95	2.07	2.00	
Sep 13	1.96	1.95	1.95	1.95	1.97	S	1.98	1.97	1.97	1.96	1.96	1.97	1.96	1.96	1.95	1.95	1.96	1.96	1.97	1.96	1.98	1.99	1.99	1.99	1.95	1.99	1.97	
Sep 14	1.99	2.03	2.04	2.06	S	2.01	2.00	2.00	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.00	2.01	2.02	2.01	2.02	1.99	2.06	2.01	
Sep 15	2.02	2.02	2.02	S	2.03	2.04	2.03	2.04	2.03	2.01	1.99	1.98	1.99	1.98	1.98	1.97	1.98	1.96	1.99	1.98	1.98	2.01	2.02	2.06	1.96	2.06	2.00	
Sep 16	2.06	2.04	S	2.00	2.01	2.03	2.04	2.05	2.03	2.01	2.00	2.00	2.02	2.04	2.05	2.07	2.05	2.03	2.05	2.11	2.15	2.15	2.15	2.17	2.00	2.17	2.06	
Sep 17	2.16	S	2.11	2.11	2.13	2.14	2.10	2.09	2.09	2.08	2.05	2.04	2.03	2.00	1.98	1.98	1.99	1.99	1.99	2.02	2.04	2.06	2.05	2.05	1.98	2.16	2.06	
Sep 18	S	2.03	2.00	1.95	1.96	1.96	1.98	1.99	1.99	2.00	2.02	2.04	2.00	1.99	1.99	2.00	2.00	2.00	2.01	2.01	2.01	2.02	2.02	S	1.95	2.04	2.00	
Sep 19	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.04	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.01	2.00	2.01	2.01	2.01	S	2.04	2.00	2.04	2.02
Sep 20	2.07	2.06	2.07	2.06	2.05	2.07	2.07	2.07	2.07	2.04	2.08	2.14	2.18	2.18	2.29	2.27	2.27	2.30	2.30	2.28	2.22	S	2.06	2.05	2.04	2.30	2.14	
Sep 21	2.06	2.06	2.06	2.05	2.05	2.04	2.04	2.04	2.03	2.03	2.02	2.01	2.00	1.99	1.99	2.00	1.99	1.98	1.98	S	1.99	1.99	2.00	1.98	2.06	2.02	1.99	
Sep 22	2.00	2.00	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	1.99	1.98	1.97	1.98	1.98	1.98	1.98	1.98	1.98	S	2.03	2.08	2.11	2.03	1.97	2.11	2.01	
Sep 23	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.03	2.03	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	S	2.00	1.97	1.96	1.97	1.96	1.96	2.03	2.00	
Sep 24	1.97	1.98	1.99	2.00	2.00	2.00	2.01	2.01	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	S	1.99	1.99	1.99	1.99	2.01	2.01	1.97	2.01	1.99	
Sep 25	2.03	2.02	2.02	2.01	2.06	2.24	2.28	2.20	2.08	2.02	2.02	2.02	2.00	2.00	2.00	2.00	S	2.00	2.01	2.01	2.01	2.02	2.02	2.02	2.00	2.28	2.05	
Sep 26	2.02	2.05	2.06	2.05	2.03	2.04	2.04	2.05	2.04	2.04	2.04	2.01	2.01	1.99	1.99	S	1.97	1.97	1.98	1.99	2.01	2.03	2.09	2.16	1.97	2.16	2.03	
Sep 27	2.15	2.20	2.22	2.19	2.16	2.02	2.00	2.00	1.99	1.99	1.97	1.97	1.97	S	1.97	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.96	1.96	2.22	2.02	
Sep 28	1.98	1.99	1.99	2.01	2.00	2.02	2.02	2.02	2.05	2.29	2.33	2.32	2.27	S	2.22	2.21	2.19	2.18	2.19	2.19	2.21	2.21	2.19	2.16	1.98	2.33	2.14	
Sep 29	2.16	2.15	2.15	2.16	2.17	2.17	2.15	2.14	2.12	2.13	2.11	2.09	S	2.09	2.09	2.09	2.09	2.09	2.09	2.08	2.09	2.13	2.11	2.11	2.08	2.17	2.12	
Sep 30	2.08	2.08	2.10	2.11	2.10	2.15	2.09	2.13	2.15	2.13	2.11	S	2.04	2.02	2.03	2.02	2.03	2.03	2.04	2.05	2.07	2.07	2.06	2.05	2.02	2.15	2.08	
Diurnal Maximum	2.17	2.20	2.22	2.26	2.41	2.49	2.55	2.50	2.24	2.29	2.33	2.32	2.27	2.18	2.29	2.27	2.27	2.30	2.30	2.28	2.22	2.21	2.19	2.17				
Diurnal Average	2.04	2.05	2.06	2.06	2.06	2.07	2.07	2.06	2.05	2.04	2.03	2.03	2.02	2.01	2.02	2.02	2.02	2.02	2.02	2.03	2.04	2.03	2.04	2.04				

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

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

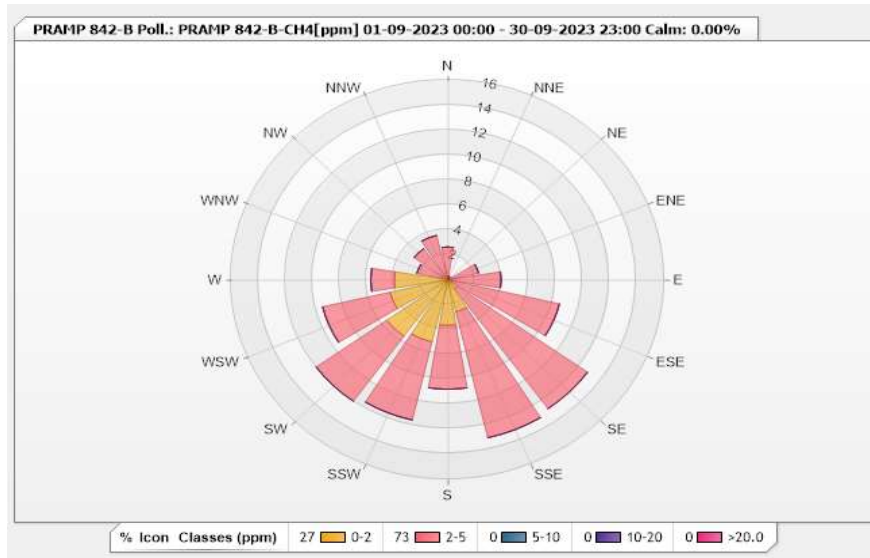


Station: PRAMP 842-B Poll.: PRAMP 842-B-CH4[ppm] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	2.63	0	0	0	2.63
NNE	0	0.29	0	0	0	0.29
NE	0	0.15	0	0	0	0.15
ENE	0	2.34	0	0	0	2.34
E	0	3.94	0	0	0	3.94
ESE	0.29	8.18	0	0	0	8.47
SE	0.88	11.82	0	0	0	12.7
SSE	2.63	10.36	0	0	0	12.99
S	3.65	5.11	0	0	0	8.76
SSW	5.11	6.42	0	0	0	11.53
SW	5.55	6.42	0	0	0	11.97
WSW	4.38	5.11	0	0	0	9.49
W	3.94	1.75	0	0	0	5.69
WNW	0.44	1.9	0	0	0	2.34
NW	0.29	2.77	0	0	0	3.06
NNW	0.29	3.36	0	0	0	3.65
Summary	27.45	72.55	0	0	0	100





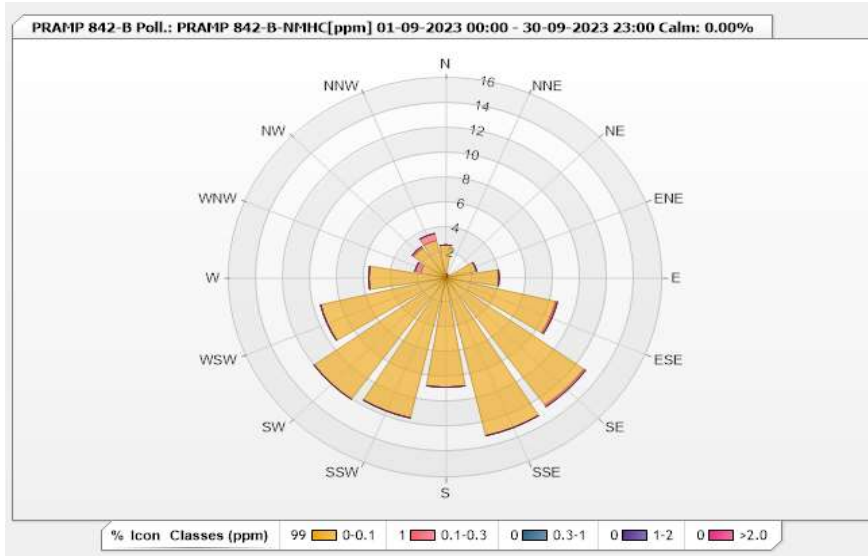


Station: PRAMP 842-B Poll.: PRAMP 842-B-NMHC[ppm] Monthly: 09-2023

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

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

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	2.63	0	0	0	0	2.63
NNE	0.29	0	0	0	0	0.29
NE	0.15	0	0	0	0	0.15
ENE	2.34	0	0	0	0	2.34
E	3.94	0	0	0	0	3.94
ESE	8.32	0.15	0	0	0	8.47
SE	12.55	0.15	0	0	0	12.7
SSE	12.99	0	0	0	0	12.99
S	8.76	0	0	0	0	8.76
SSW	11.53	0	0	0	0	11.53
SW	11.97	0	0	0	0	11.97
WSW	9.49	0	0	0	0	9.49
W	5.69	0	0	0	0	5.69
WNW	1.9	0.44	0	0	0	2.34
NW	2.92	0.15	0	0	0	3.07
NNW	3.07	0.58	0	0	0	3.65
Summary	98.54	1.47	0	0	0	100



**Peace River Area Monitoring Program**

**842-B Station - September 2023**

**Summary of Hourly Averages**

**RELATIVE HUMIDITY (RH) in %**

Maximum Hourly Value:	100	%	on Sep 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	98.1	%	on Sep 28	Hours of Data:	720
Minimum Hourly Value:	20	%	on Sep 22 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	45.9	%	on Sep 15	Hours of Calibration:	0
Monthly Average:	67.6	%		Operational Uptime:	100.0

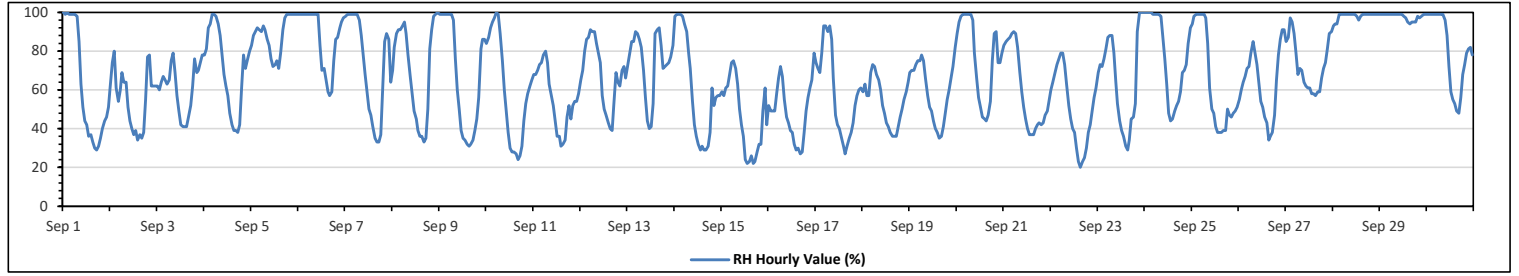
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	100	99	100	99	99	99	99	98	85	63	51	44	42	36	37	33	30	29	31	35	40	44	46	51	29	100	62.1	
Sep 2	61	74	80	61	54	60	69	64	64	51	44	40	37	39	34	37	35	38	55	77	78	62	62	62	34	80	55.8	
Sep 3	62	60	64	67	65	63	65	75	79	69	57	49	42	41	41	41	46	52	62	76	69	70	74	78	41	79	61.1	
Sep 4	78	81	92	94	99	99	98	94	88	78	68	62	57	48	42	39	39	38	42	61	78	71	76	80	38	99	70.9	
Sep 5	83	88	90	92	91	90	93	91	86	83	76	72	73	75	71	79	91	97	99	99	99	99	99	99	71	99	88.1	
Sep 6	99	99	99	99	99	99	99	99	99	99	99	83	70	71	65	59	57	59	75	86	87	92	95	97	57	99	86.9	
Sep 7	98	99	99	99	99	99	99	96	88	78	68	59	50	47	41	35	33	37	61	85	89	86	64	33	99	72.6		
Sep 8	70	82	89	91	91	93	95	89	78	67	58	49	45	39	36	36	33	35	50	81	91	98	99	100	33	100	70.6	
Sep 9	99	99	99	99	99	99	99	96	76	60	50	39	35	34	32	31	32	34	39	45	56	81	86	86	31	99	66.9	
Sep 10	84	87	92	95	97	100	99	89	75	60	49	38	30	28	28	27	24	26	31	44	53	58	62	65	24	100	60.0	
Sep 11	68	68	70	73	74	78	80	74	63	57	52	44	36	36	31	32	34	46	52	45	52	54	54	58	31	80	55.5	
Sep 12	65	70	80	86	87	91	90	90	84	79	74	57	50	47	43	40	39	52	69	64	62	70	72	66	39	91	67.8	
Sep 13	72	79	85	85	90	89	86	82	70	56	44	40	41	53	89	91	92	83	71	72	73	74	77	83	40	92	74.0	
Sep 14	98	99	99	99	98	94	90	79	71	54	42	36	32	29	31	29	29	31	38	61	52	56	57	57	29	99	60.9	
Sep 15	59	57	61	62	68	74	75	71	63	50	42	36	24	22	23	26	22	23	28	32	32	49	61	42	22	75	45.9	
Sep 16	52	49	49	49	58	66	72	67	55	46	43	39	38	32	29	30	27	28	38	49	56	61	65	79	27	79	49.0	
Sep 17	74	71	69	79	93	90	93	86	66	47	42	40	35	31	27	31	35	38	43	52	57	60	61	27	93	58.9		
Sep 18	59	63	57	57	69	73	72	68	65	60	52	48	43	41	38	36	36	36	41	46	50	55	59	64	36	73	53.7	
Sep 19	69	70	70	73	75	75	78	75	66	57	51	49	44	40	38	35	36	41	48	55	60	66	72	82	35	82	59.4	
Sep 20	89	95	98	99	99	99	99	99	96	79	66	56	51	46	45	44	47	54	75	89	90	74	74	79	44	99	76.8	
Sep 21	83	85	86	87	89	90	89	82	69	59	51	45	40	37	37	37	40	42	43	42	43	47	49	55	37	90	59.5	
Sep 22	60	64	69	73	76	79	79	73	63	52	45	40	38	30	23	20	23	25	30	38	42	49	56	61	20	79	50.3	
Sep 23	69	73	72	76	81	87	88	88	79	64	53	44	39	36	31	29	34	45	46	53	90	100	100	100	29	100	65.7	
Sep 24	100	100	100	100	99	99	99	99	98	87	76	63	48	44	45	49	52	54	59	69	70	73	84	92	44	100	77.5	
Sep 25	94	98	99	99	99	99	99	97	84	61	50	48	41	38	38	38	39	39	50	47	46	48	49	51	38	99	64.6	
Sep 26	55	60	64	67	71	72	79	85	79	73	65	54	51	46	43	34	36	38	47	65	78	86	91	91	34	91	63.8	
Sep 27	85	87	97	95	89	79	68	71	70	64	62	61	61	58	58	57	59	59	66	71	74	81	89	90	57	97	73.0	
Sep 28	93	94	94	99	99	99	99	99	99	99	99	99	98	96	98	99	99	99	99	99	99	99	99	99	93	99	98.1	
Sep 29	99	99	99	99	99	99	99	99	99	99	99	99	99	98	97	95	94	95	95	98	97	98	99	99	94	99	97.8	
Sep 30	99	99	99	99	99	99	99	99	96	88	72	59	55	53	49	48	56	68	73	79	81	82	78	48	99	80.3		
Diurnal Maximum	100	100	100	100	99	100	99	99	99	99	99	99	98	97	98	99	99	99	99	99	99	100	100	100	100			
Diurnal Average	79.2	81.6	84.0	85.1	86.8	87.8	88.2	86.0	79.2	68.9	60.7	53.6	48.4	45.9	44.9	43.8	44.6	47.4	54.1	62.5	67.8	71.4	74.5	75.6				

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

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



**Peace River Area Monitoring Program**  
**842-B Station - September 2023**  
**Summary of Hourly Averages**  
**BAROMETRIC PRESSURE (BP) in millibar**

Maximum Hourly Value:	953	mb	on Sep 9 at hr 8	Hours in Service:	720
Maximum Daily Value:	951	mb	on Sep 9	Hours of Data:	720
Minimum Hourly Value:	926	mb	on Sep 1 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	930	mb	on Sep 17	Hours of Calibration:	0
Monthly Average:	938	mb		Operational Uptime:	100.0

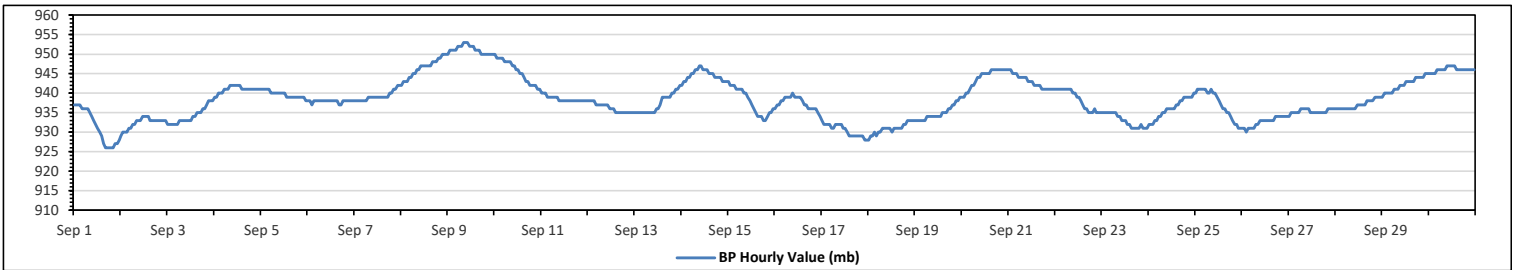
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
Sep 1	937	937	937	937	936	936	936	936	935	934	933	932	931	930	929	927	926	926	926	926	927	927	928	926	937	931
Sep 2	929	930	930	930	931	931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

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

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



**Peace River Area Monitoring Program**  
**842-B Station - September 2023**  
**Summary of Hourly Averages**  
**AMBIENT TEMPERATURE (AT) in Degree Celsius**

Maximum Hourly Value:	28.5 °C	on Sep 15 at hr 14	Hours in Service:	720
Maximum Daily Value:	18.5 °C	on Sep 11	Hours of Data:	720
Minimum Hourly Value:	-0.6 °C	on Sep 25 at hr 4	Hours of Missing Data:	0
Minimum Daily Value:	6.5 °C	on Sep 29	Hours of Calibration:	0
Monthly Average:	13.0 °C		Operational Uptime:	100.0

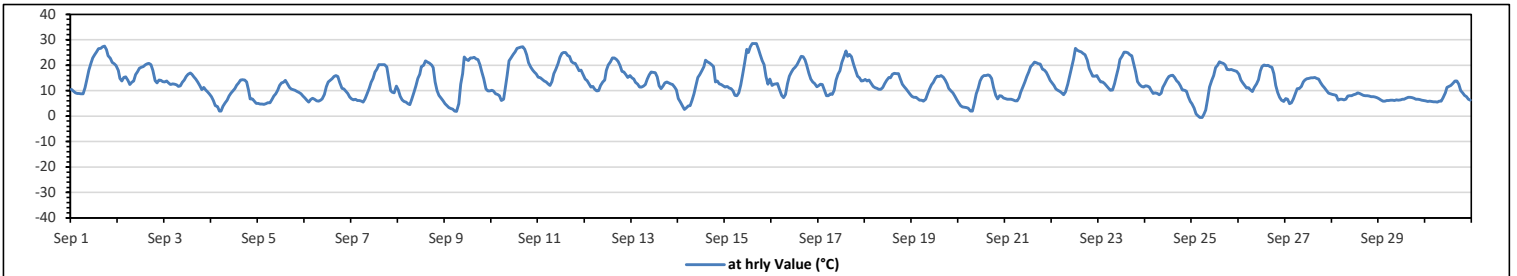
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	10.5	9.7	9.2	8.9	8.9	8.7	8.8	11.1	14.5	18	20.5	22.9	24.2	25.2	26.5	26.6	27.2	27.5	26.1	23.7	22.7	21.1	20.6	19.9	8.7	27.5	18.5
Sep 2	17.9	14.9	13.7	15.2	15.4	14	12.4	13.3	13.7	16.3	17.5	18.9	19.1	19.4	20.2	20.5	20.7	20.2	17.9	13.9	13.1	14.1	14	13.6	12.4	20.7	16.2
Sep 3	13.5	13.7	13	12.4	12.7	12.5	12.3	11.7	11.9	13.3	14.2	15.5	16.4	16.9	16.4	15.4	14.5	13.5	11.9	10.4	11.2	10.3	9.5	8.6	8.6	16.9	13.0
Sep 4	7.7	6.1	4.2	3.8	1.9	2	3.9	5.3	6.2	7.9	9	9.8	10.8	12.2	13.1	14.1	14.3	14.2	13.5	10.2	6.8	6.8	5.8	5	1.9	14.3	8.1
Sep 5	5	4.7	4.7	4.6	4.9	5.3	5.2	6.5	7.9	8.7	10.2	12	13.1	13.3	14	12.8	11.2	10.7	10.4	10.1	9.6	9.3	8.8	7.9	4.6	14.0	8.8
Sep 6	7.1	6.2	5.5	6.5	7	6.6	6	5.8	6.2	6.8	8.5	11.5	13.4	14	14.7	15.5	16	15.5	13.2	10.9	10.7	9.7	8.9	7.5	5.5	16.0	9.7
Sep 7	6.8	6.4	6.6	6.1	6.1	5.8	5.5	6.8	8.6	10.9	13.3	14.8	17.4	18.5	20.3	20.3	20.3	20.2	19.3	14.7	10	9.4	9.2	11.8	5.5	20.3	12.0
Sep 8	10.3	7.8	6.4	5.7	5.5	4.9	4.5	6.6	9.4	11.9	14.9	16.4	19.5	20	21.7	21.2	20.8	20.1	19	13.5	10	8.2	7	6	4.5	21.7	12.1
Sep 9	4.9	4.1	3.4	3	2.8	2	1.8	4.9	12.5	16.6	23.2	22.3	21.8	22.9	22.9	23	22.5	22.2	20.2	17.3	14.7	10.7	9.9	9.9	1.8	23.2	13.3
Sep 10	10.1	9.8	8.7	8.5	8.1	6.1	6.7	10.8	16	21.7	22.9	24.3	25.2	26.6	26.9	27.1	27.2	26.3	24.2	20.9	19.2	18.1	17.3	16.5	6.1	27.2	17.9
Sep 11	15.3	15	14.4	13.8	13.5	12.7	12.1	13.6	16.6	18.3	20.5	23	24.6	25	25	23.8	23.4	21.5	20.8	20.7	19.3	17.8	18	16.4	12.1	25.0	18.5
Sep 12	14.5	13.9	12.6	11.4	11.7	10.6	9.8	10	12	13.4	14.2	17.9	20.1	21.4	22.9	22.9	22.3	21.5	19.9	17.6	17.4	16.3	15.1	15.9	9.8	22.9	16.1
Sep 13	15	14.6	13.3	12.5	11.4	11.4	11.8	12.4	14.5	16.2	17.3	17.2	17.1	15.4	11.9	10.8	11.8	13	13.5	13.1	12.7	12.4	11.3	10.3	10.3	17.3	13.4
Sep 14	6.9	5.6	4	2.6	3.2	4	4.1	6.3	8.8	12	15.2	16.3	17.9	19.4	22	21.4	20.8	20.2	19.5	13.4	13.7	12.6	12.4	11.9	2.6	22.0	12.3
Sep 15	11.4	11.6	11	10.8	9.8	8.2	8.1	9.1	12.2	16.3	20.7	26.3	25	27.2	28.5	28.5	28.4	26.5	24.1	21.8	20.2	15.5	12.5	14.5	8.1	28.5	17.8
Sep 16	12.1	12.5	12.7	12.8	10.5	8.2	7.2	8.5	12.6	15.7	17.2	18.4	19.1	20.3	22	23.4	23.3	22.1	20.1	16.8	14.6	13.4	12.8	11.5	7.2	23.4	15.3
Sep 17	11.9	12.5	12.4	10.4	8.1	8.1	8.8	8.5	10.1	14.1	16.4	17.8	21.1	23.4	25.6	23.5	24.3	23.3	20.3	17.9	15.7	15	13.7	13.9	8.1	25.6	15.7
Sep 18	14.4	13.8	14.2	12.8	11.6	11.1	10.9	10.5	10.5	11.3	12.8	14	15.1	15	16.4	16.8	16.6	16.6	14.5	12.5	11.5	10.7	9.6	8.6	8.6	16.8	13.0
Sep 19	7.8	7.4	7.4	6.8	6.3	6.2	5.9	6.7	8.8	10.7	12.3	13.3	14.8	15.7	15.6	15.9	15.3	14.1	12.6	10.9	9.9	9.1	7.9	6.5	5.9	15.9	10.3
Sep 20	5.2	4.2	3.6	3.5	3.3	3.1	2	1.9	5.1	8.7	10.9	13.7	15.3	15.9	16	16.2	16	14.8	11.3	8.2	6.8	8	7.9	7.1	1.9	16.2	8.7
Sep 21	6.9	6.7	6.7	6.6	6.4	6	6	7.2	9.4	11.5	13.5	15.6	17.3	19.5	20.2	21.2	20.9	20.5	20.4	18.5	18.1	17.2	15.7	14	6.0	21.2	13.6
Sep 22	13	12	10.7	10.2	9.6	9.1	8.4	9.5	12.5	15.8	19	22.4	26.7	25.8	25.5	25.2	24.6	24.1	22	18.7	17.4	15.7	16	8.4	26.7	17.1	
Sep 23	14.5	13.4	13.5	12.8	11.9	11	10.2	10.3	12.7	15.8	18.9	22.2	23.6	25.1	25.1	24.8	24.2	23.7	20.5	17.5	13.6	12.3	11.6	11.4	10.2	25.1	16.7
Sep 24	11.9	11.8	11.4	10	8.9	9.2	8.9	8.4	9	11.3	12.6	14.4	15.6	16	16.1	15.2	13.9	13.2	11.9	10.3	10.1	9.7	7.5	5.7	5.7	16.1	11.4
Sep 25	4.8	3.1	0.8	0.1	-0.6	-0.6	0.6	2.4	6.6	11.4	14	15.9	19	20	21.4	21	20.7	20.1	18.3	18.2	18.3	18.1	17.8	17.6	-0.6	21.4	12.0
Sep 26	16.4	14.2	13.1	12	11	11.1	10.3	9.6	11.2	12.6	14.3	17.8	19.5	20.1	19.8	20	19.5	19.2	16.7	12.1	9.3	7.4	6.2	5.7	5.7	20.1	13.7
Sep 27	6.9	6.6	4.9	5.2	6.8	8.8	10.8	10.8	11.7	13.5	14.2	14.7	14.8	15	15	15.1	14.9	14.6	13.2	12	11.1	10.2	9	8.8	4.9	15.1	11.2
Sep 28	8.5	8.3	8.2	6.3	6.6	6.7	6.4	6.6	7.9	8.1	8.1	8.3	8.6	9.1	8.9	8.5	8.2	8.1	8	7.9	7.7	7.6	7.5	7.2	6.3	9.1	7.8
Sep 29	6.9	6.4	5.9	5.9	6.1	6.2	6.2	6.1	6.4	6.3	6.4	6.7	6.6	7	7.3	7.3	7.2	7	6.7	6.6	6.5	6.3	6.1	5.9	5.9	7.3	6.5
Sep 30	6	5.7	5.9	5.7	5.6	5.6	5.5	5.8	5.8	7.2	9.1	11.2	11.7	12.1	12.9	13.7	13.7	12.5	10	9.2	8.2	7.6	6.6	6.3	5.5	13.7	8.5
Diurnal Maximum	17.9	15.0	14.4	15.2	15.4	14.0	12.4	13.6	16.6	21.7	23.2	26.3	26.7	27.2	28.5	28.5	28.4	27.5	26.1	23.7	22.7	21.1	20.6	19.9			
Diurnal Average	10.1	9.4	8.7	8.2	7.8	7.5	7.4	8.2	10.4	12.7	14.7	16.5	17.8	18.6	19.2	19.1	18.8	18.2	16.7	14.3	13.0	12.0	11.2	10.7			

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

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



**Peace River Area Monitoring Program**  
**842-B Station - September 2023**  
**Summary of Hourly Averages**  
**STATION TEMPERATURE (ST) in Degree Celsius**

Maximum Hourly Value:	23.7 °C	on Sep 1 at hr 9	Hours in Service:	720
Maximum Daily Value:	22.7 °C	on Sep 2	Hours of Data:	720
Minimum Hourly Value:	21.3 °C	on Sep 16 at hr 23	Hours of Missing Data:	0
Minimum Daily Value:	21.6 °C	on Sep 29	Hours of Calibration:	0
Monthly Average:	22.3 °C		Operational Uptime:	100.0

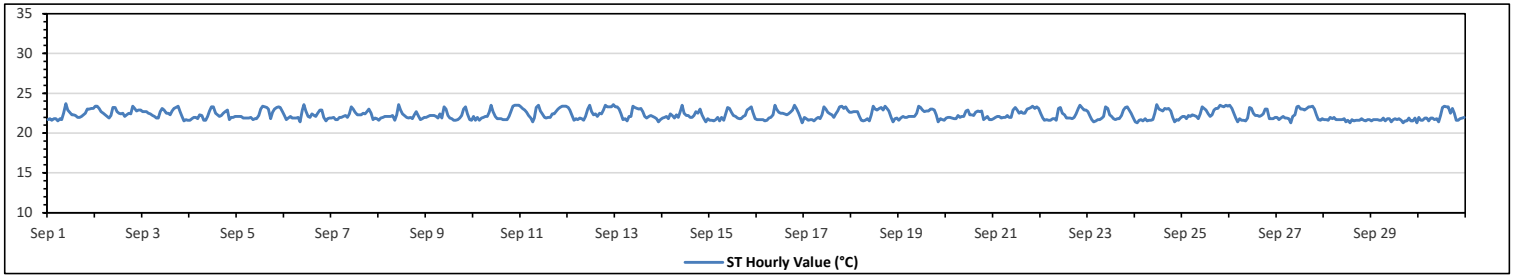
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	21.7	21.8	21.6	21.8	21.8	21.5	21.8	21.7	22.5	<b>23.7</b>	22.9	22.6	22.3	22.3	22.2	22.0	22.0	22.1	22.3	22.5	23.0	23.0	23.1	23.1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

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

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



**Peace River Area Monitoring Program**

**842-B Station - September 2023**

**Summary of Hourly Averages**

**PRECIPITATION in mm**

Maximum Hourly Value:	1.7 mm on Sep 28 at hr 15	Hours in Service:	720
Maximum Daily Value:	3.3 mm on Sep 28	Hours of Data:	720
Minimum Hourly Value:	0.0 mm on Sep 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 mm on Sep 1	Hours of Calibration:	0
Monthly Total:	8.1 mm	Operational Uptime:	100.0

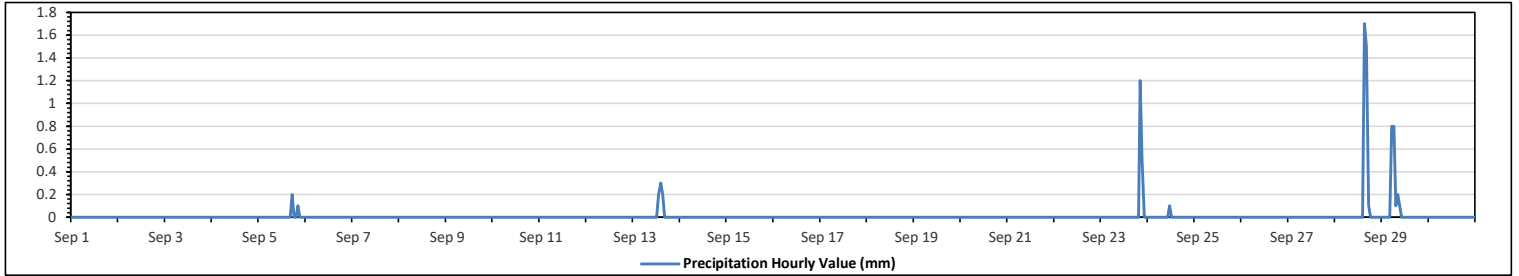
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 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
Sep 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
Sep 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.1	0	0	0	0.0	0.2	0.3
Sep 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
Sep 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3	0.2	0	0	0	0	0	0	0	0	0.0	0.3	0.7
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0.5	0	0.0	1.2	1.7
Sep 24	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Sep 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
Sep 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
Sep 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
Sep 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	1.5	0.1	0	0	0	0	0	0	0.0	1.7	3.3
Sep 29	0	0	0	0	0	0.8	0.8	0.1	0.2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.8	2.0
Sep 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.1	0.2	0.1	0.0	0.1	0.0	0.2	0.3	1.7	1.5	0.2	0.0	0.0	1.2	0.5	0.0	0.0	0.0	0.0	0.0
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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



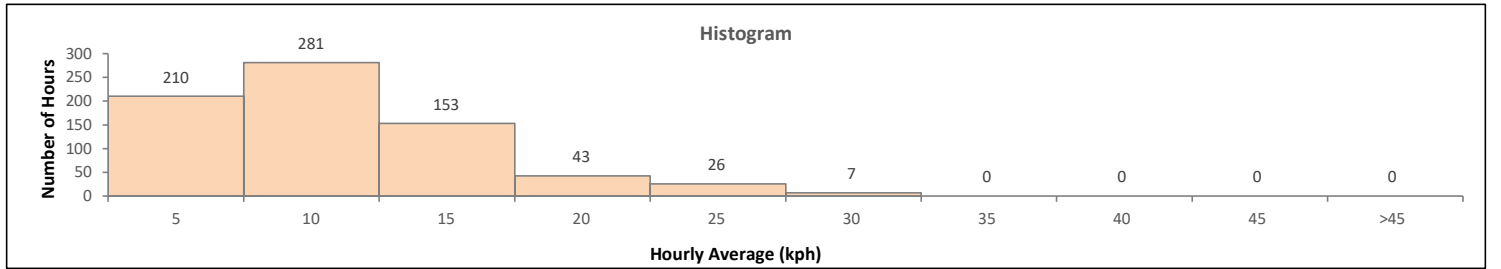
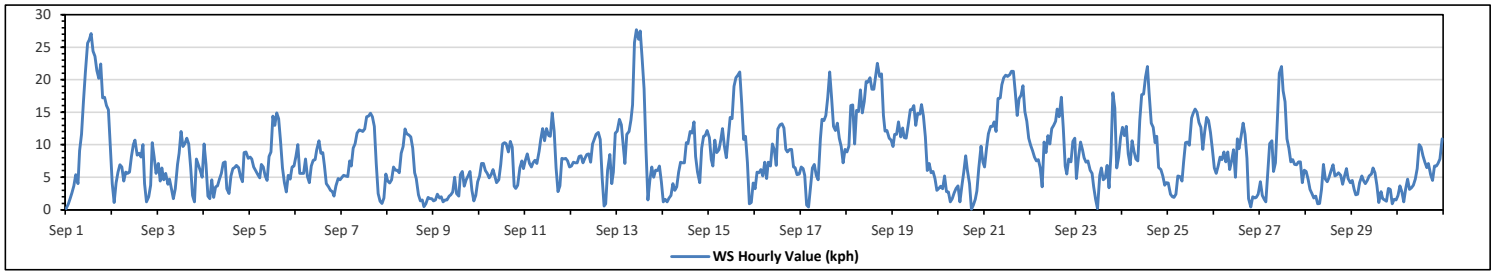
**Peace River Area Monitoring Program**  
**842-B Station - September 2023**  
**Summary of Hourly Averages**  
**VECTOR WIND SPEED (VWS) in km/hr**

Maximum Hourly Value:	27.7	kph	on Sep 13 at hr 10	Hours in Service:	720
Maximum Daily Value:	16.0	kph	on Sep 21	Hours of Data:	720
Minimum Hourly Value:	0.1	kph	on Sep 20 at hr 17	Hours of Missing Data:	0
Minimum Daily Value:	3.0	kph	on Sep 9	Hours of Calibration:	0
Monthly Average:	4.7	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	
Sep 1	0.2	0.9	1.8	2.6	3.7	5.4	4.0	9.1	11.6	16.6	21.1	25.6	26.1	27.1	24.4	23.6	21.4	20.2	22.4	17.2	17.3	16.0	15.4	9.7	0.2	27.1	14.3	
Sep 2	4.0	1.1	4.1	5.8	6.9	6.6	4.4	5.8	5.6	5.8	8.2	10.0	10.7	8.4	8.7	8.1	10.0	4.0	1.2	2.0	3.8	10.3	8.1	5.6	1.1	10.7	6.2	
Sep 3	7.1	4.4	6.4	4.6	5.6	3.9	4.7	3.2	1.7	3.2	7.0	8.7	12.0	9.7	10.2	11.0	10.1	6.6	2.2	1.2	7.8	6.9	6.0	5.0	1.2	12.0	6.2	
Sep 4	10.1	7.0	2.1	1.7	4.6	1.9	3.5	3.7	4.7	5.6	7.2	7.4	3.2	2.5	5.2	6.3	6.5	6.8	6.5	5.1	4.3	8.8	8.9	7.9	1.7	10.1	5.5	
Sep 5	8.1	7.8	6.6	6.0	5.4	4.9	7.0	6.6	5.2	4.5	8.2	8.9	14.4	13.0	14.9	14.0	10.5	6.4	4.2	2.7	5.3	4.7	6.6	6.7	2.7	14.9	7.6	
Sep 6	8.2	10.0	5.6	5.6	5.6	7.8	5.1	4.2	6.7	7.6	7.7	9.2	10.6	8.7	8.8	6.8	4.0	3.5	3.0	2.8	2.1	3.7	4.8	4.6	2.1	10.6	6.1	
Sep 7	5.0	5.3	5.2	5.1	7.5	6.7	9.5	10.2	11.8	12.3	12.2	12.0	12.4	14.3	14.4	14.8	14.3	12.8	7.1	2.5	1.3	1.0	1.8	5.5	1.0	14.8	8.5	
Sep 8	4.4	4.1	4.6	6.6	6.1	6.1	5.7	8.7	9.7	12.4	11.7	11.5	11.2	9.5	5.7	4.8	2.3	1.4	1.5	0.5	0.9	1.9	1.7	1.7	0.5	12.4	5.6	
Sep 9	1.4	1.5	2.4	1.8	2.0	1.2	1.5	1.5	2.1	2.3	2.7	5.0	2.5	2.1	5.4	5.9	3.6	4.6	5.2	5.9	3.0	1.4	2.2	4.3	1.2	5.9	3.0	
Sep 10	5.2	7.1	7.1	6.0	5.6	4.9	5.4	6.2	5.1	4.2	4.6	6.9	10.1	10.3	10.2	8.9	10.5	9.6	3.6	3.3	3.8	6.5	7.5	6.3	3.3	10.5	6.6	
Sep 11	7.6	8.6	7.1	6.6	7.2	7.6	7.1	9.0	10.8	12.5	10.2	10.6	12.5	11.4	11.3	14.9	12.1	6.4	2.8	3.7	7.9	7.8	7.9	7.5	6.6	2.8	14.9	8.6
Sep 12	6.7	7.3	7.2	7.2	8.2	8.3	7.2	7.9	8.5	8.6	7.3	10.1	10.9	11.6	11.9	10.8	4.9	0.6	0.9	6.1	8.5	4.0	5.8	11.8	0.6	11.9	7.6	
Sep 13	12.1	13.9	13.1	10.3	7.1	11.6	12.0	13.8	16.1	25.7	27.7	26.2	27.5	23.2	18.6	9.2	1.5	4.5	6.6	5.0	6.1	6.0	6.7	4.3	1.5	27.7	12.9	
Sep 14	1.2	1.6	1.2	1.8	2.2	4.0	3.0	3.5	5.8	7.3	7.2	7.2	10.3	10.2	12.0	11.8	13.5	8.2	5.8	4.2	9.5	11.3	11.4	12.2	1.2	13.5	6.9	
Sep 15	11.1	7.7	6.7	10.7	8.8	9.2	10.8	12.5	9.8	8.0	11.1	14.2	14.0	19.0	20.3	20.7	21.2	16.4	10.8	11.3	7.2	0.9	1.1	4.1	0.9	21.2	11.2	
Sep 16	3.2	5.8	5.7	6.2	5.2	7.3	4.8	7.3	6.7	10.1	9.2	6.8	12.4	13.1	13.2	12.6	9.3	8.9	9.3	9.3	6.6	6.5	5.4	5.5	3.2	13.2	7.9	
Sep 17	6.6	6.3	5.3	0.7	0.4	3.9	6.4	7.0	5.3	4.6	10.9	13.9	13.7	14.5	17.3	21.2	17.2	12.8	12.2	13.3	11.0	9.7	7.2	9.3	0.4	21.2	9.6	
Sep 18	8.9	9.8	16.0	16.1	10.1	15.3	15.1	18.4	14.9	16.6	19.7	19.6	20.3	18.5	18.5	20.7	22.5	20.5	20.9	14.5	12.1	12.2	11.0	10.7	8.9	22.5	16.0	
Sep 19	9.7	11.6	11.6	13.5	11.2	12.6	11.1	11.0	12.9	15.4	15.4	16.0	13.0	14.8	14.7	16.2	14.4	11.2	6.0	7.1	5.7	5.9	4.8	3.0	3.0	16.2	11.2	
Sep 20	3.3	3.6	3.2	5.2	2.8	2.7	1.2	1.7	2.6	3.3	3.7	1.2	3.6	5.8	8.3	6.2	4.0	0.1	0.7	1.6	2.9	6.4	9.8	7.3	0.1	9.8	3.8	
Sep 21	6.6	9.4	11.7	12.8	12.8	13.5	12.0	17.1	17.2	19.2	20.3	20.7	20.5	20.8	21.3	21.3	18.1	14.5	17.1	17.6	19.1	15.1	13.6	11.0	6.6	21.3	16.0	
Sep 22	9.9	9.1	8.1	7.5	7.7	6.4	3.5	10.4	8.8	11.4	10.1	12.5	13.0	13.6	15.5	14.3	17.3	12.6	6.7	5.5	7.8	7.4	10.5	11.0	3.5	17.3	10.0	
Sep 23	4.8	7.8	10.4	9.2	8.0	7.3	7.5	6.1	5.6	3.5	1.6	0.2	5.3	6.4	4.6	4.9	6.8	3.4	8.5	18.0	15.6	6.4	8.1	11.1	0.2	18.0	7.1	
Sep 24	12.7	11.4	12.8	8.6	6.9	10.6	9.0	7.8	7.5	13.7	17.7	17.8	20.4	22.0	18.1	13.3	12.7	10.3	11.3	6.5	6.2	5.2	3.8	4.2	3.8	22.0	11.3	
Sep 25	4.1	2.4	2.0	1.9	2.4	5.2	5.1	4.4	7.3	10.3	10.4	9.9	14.1	14.8	15.5	15.0	13.4	12.7	9.3	12.0	14.2	13.7	11.9	9.3	1.9	15.5	9.2	
Sep 26	6.4	5.6	6.7	8.1	7.7	8.9	7.4	8.9	6.2	7.5	9.2	5.0	10.9	9.4	11.4	13.3	11.6	7.9	1.7	0.4	2.0	1.8	1.9	2.4	0.4	13.3	6.8	
Sep 27	4.3	2.2	1.6	1.2	5.7	10.2	10.6	5.9	7.2	13.8	21.0	22.0	18.3	16.6	10.9	9.5	7.4	7.7	7.0	6.9	7.4	7.4	4.2	6.1	1.2	22.0	9.0	
Sep 28	5.9	4.7	3.1	2.5	1.8	2.1	0.9	1.0	3.1	7.0	4.7	4.3	4.9	6.0	6.9	5.2	5.4	5.7	5.3	3.9	5.2	6.3	4.8	4.2	0.9	7.0	4.4	
Sep 29	4.5	3.1	2.3	2.4	4.2	5.2	4.4	4.0	4.5	5.2	5.5	6.4	5.7	3.8	1.1	2.8	1.7	1.5	1.3	3.3	3.1	0.9	1.6	1.5	0.9	6.4	3.3	
Sep 30	2.2	3.7	2.8	1.2	3.2	4.7	3.1	3.4	3.8	4.7	6.3	10.0	9.6	8.3	7.3	6.5	7.1	5.4	4.5	6.7	6.7	7.1	7.8	10.9	1.2	10.9	5.7	
Diurnal Maximum	12.7	13.9	16.0	16.1	12.8	15.3	15.1	18.4	17.2	25.7	27.7	26.2	27.5	27.1	24.4	23.6	22.5	20.5	22.4	18.0	19.1	16.0	15.4	12.2				
Diurnal Average	6.2	6.2	6.2	6.0	5.9	6.9	6.4	7.3	7.6	9.4	10.7	11.4	12.4	12.3	12.3	11.7	10.3	8.1	6.9	6.8	7.1	6.8	6.7	6.8				

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

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



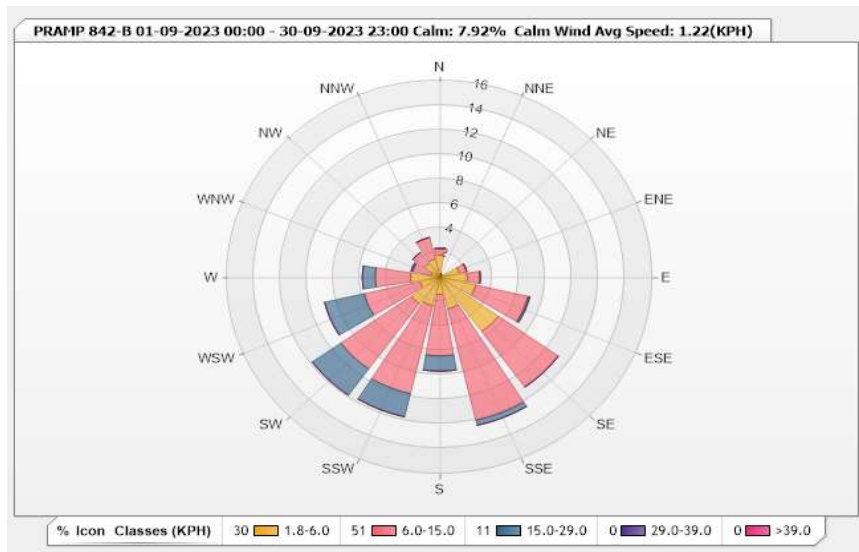


Station: PRAMP 842-B Monitor: WDS [KPH] Monthly: 09-2023

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

Calm (WS<1.8kph): 7.92% 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	1.81	0.56	0	0	0	2.37
NNE	0.28	0	0	0	0	0.28
NE	0.14	0	0	0	0	0.14
ENE	1.53	0.56	0	0	0	2.09
E	2.08	0.97	0	0	0	3.05
ESE	2.78	4.03	0.14	0	0	6.95
SE	5.42	5.56	0	0	0	10.98
SSE	2.64	9.31	0.42	0	0	12.37
S	1.39	5	1.25	0	0	7.64
SSW	2.36	7.36	1.94	0	0	11.66
SW	2.64	6.53	2.64	0	0	11.81
WSW	1.53	4.31	3.06	0	0	8.9
W	2.22	2.64	0.97	0	0	5.83
WNW	0.69	1.39	0.14	0	0	2.22
NW	1.39	1.11	0	0	0	2.5
NNW	1.53	1.81	0	0	0	3.34
Summary	30.43	51.14	10.56	0	0	92.13



Peace River Area Monitoring Program

842-B Station - September 2023

Summary of Hourly Averages

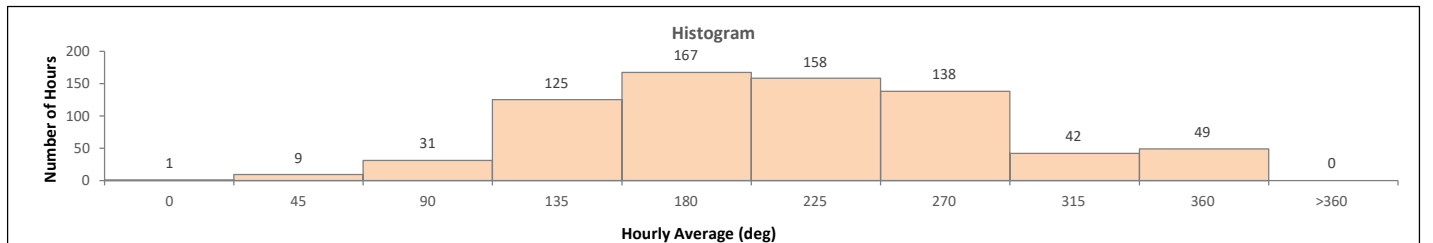
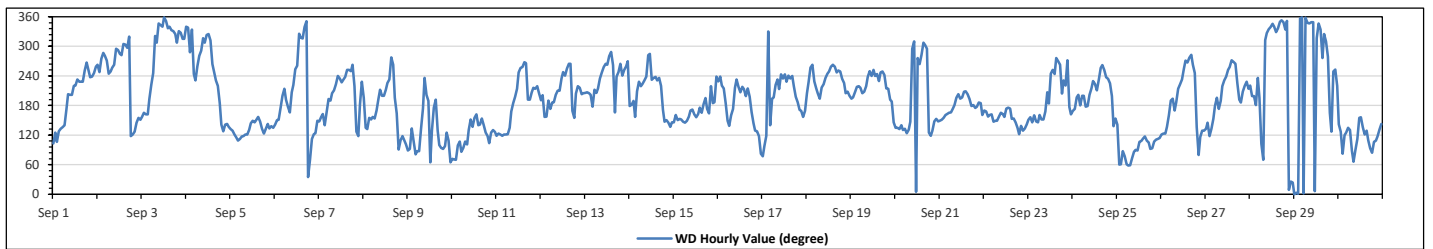
WIND DIRECTION (VWD) in sector

Monthly Average:	201 (SSW) degree	Hours in Service:	720
		Hours of Data:	720
		Hours of Missing Data:	0
		Hours of Calibration:	0
		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Sep 1	ESE	SE	ESE	SE	SE	SE	SE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	227	SW
Sep 2	W	WSW	W	WNW	W	W	WSW	WSW	WSW	W	WNW	WNW	WNW	W	WNW	WNW	WNW	NW	ESE	SE	SE	SSE	SSE	271	W	
Sep 3	SSE	SSE	SSE	SSE	S	SW	WSW	NW	NW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NW	NW	327	NW
Sep 4	NNW	NNW	WNW	NNW	WSW	SW	WSW	W	WNW	NW	NW	NW	NW	NW	W	WSW	SW	S	SE	SE	SE	SE	SE	SE	257	WSW
Sep 5	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	SE	SSE	SSE	SE	SE	ESE	SE	SE	SE	SE	SE	SE	136	SE
Sep 6	SE	SSE	SSE	S	SSW	SSW	S	S	SSE	SSW	SW	WSW	W	NW	NW	NW	NNW	N	NE	ENE	ESE	ESE	ESE	204	SSW	
Sep 7	SE	SSE	SSE	SE	SSE	S	S	SSW	SSW	SW	WSW	SW	SW	SW	SW	WSW	WSW	W	SW	SE	ESE	S	SW	221	SW	
Sep 8	SSW	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	189	S
Sep 9	E	E	SE	ESE	E	E	E	SE	S	SW	SSW	S	ENE	SE	S	SE	E	E	E	E	SE	ESE	ENE	126	SE	
Sep 10	ENE	ENE	ENE	E	ESE	E	E	ESE	E	SE	SSE	SE	SSE	SE	SSE	S	SSE	SE	ESE	ESE	ESE	SE	SE	124	ESE	
Sep 11	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SSE	S	SSW	SSW	WSW	WSW	WSW	W	W	S	S	SSW	SW	SSW	SW	SSW	195	SSW
Sep 12	S	SSW	SSE	SSE	S	S	S	S	SSW	SSW	SSW	SW	WSW	WSW	WSW	W	W	SSE	SSE	SSW	SW	SW	SSW	SSW	213	SSW
Sep 13	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	WSW	WSW	W	W	WNW	W	SSE	WSW	WSW	W	WSW	WSW	WSW	WSW	W	244	WSW
Sep 14	S	S	S	SSE	SSW	SW	SW	SW	SW	WSW	W	WNW	SW	SW	SW	SW	SW	S	SE	SSE	SE	SE	SE	SE	208	SSW
Sep 15	SE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	S	SSE	SSE	S	SSE	S	SSE	S	SSW	S	SSE	SW	S	S	WSW	167	SSE
Sep 16	SW	WSW	SW	SSW	S	SSE	SE	SSE	S	SW	SW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSE	SE	SE	SE	ESE	E	190	S
Sep 17	ENE	E	ESE	NNW	SE	SSW	SSW	SW	SW	SSW	WSW	SW	WSW	SW	WSW	SW	WSW	SW	SSW	S	S	SSE	SSE	212	SSW	
Sep 18	SSW	SW	WSW	W	SW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	235	SW
Sep 19	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	S	S	S	226	SW	
Sep 20	SE	SE	SE	SE	SE	SE	ESE	SE	SE	WNW	NW	N	W	W	W	NW	WNW	WNW	SE	ESE	SE	SE	SSE	SE	174	S
Sep 21	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S	SSE	184	S
Sep 22	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	SSE	SSE	SE	SE	ESE	SE	SE	SE	SE	SE	156	SSE
Sep 23	SSE	SSE	SE	SSE	SE	SE	SSE	SSE	SSE	SSE	SSW	S	WSW	WSW	W	W	SSW	SW	SW	W	S	SSE	194	SSW		
Sep 24	SSE	S	SSW	SSW	S	SSW	SSW	S	S	SSW	SSW	SW	SSW	SW	WSW	W	WSW	SW	SW	SSW	SE	ESE	213	SSW		
Sep 25	SE	ENE	ENE	E	ENE	ENE	ENE	ENE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	100	E
Sep 26	ESE	ESE	ESE	SE	SSE	S	SSW	SSE	S	SSW	SW	SW	WSW	W	W	W	W	W	WSW	SE	E	ESE	SE	SE	215	SSW
Sep 27	SE	SE	ESE	SE	SSE	S	SSW	S	S	SW	SW	WSW	WSW	WSW	W	W	W	W	W	SSW	SW	SW	SSW	SSW	223	SW
Sep 28	SW	SSW	SSW	S	SW	SSW	E	ENE	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	N	N	NNE	NNE	337	NNW
Sep 29	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	N	NW	NNW	NNW	W	NW	NW	W	SSE	SE	WSW	WSW	SW	345	NNW
Sep 30	SE	SE	E	ESE	SE	SE	SE	E	ENE	E	ESE	SSE	SE	ESE	SE	ESE	E	E	ESE	ESE	ESE	SE	SE	SE	122	ESE

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

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



**Peace River Area Monitoring Program**

**842-B Station - September 2023**

**Summary of Hourly Averages**

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

<b>WIND SPEED</b>					
Maximum Hourly Value:	27.7	kph	on Sep 13 at hr 10	Hours in Service:	720
Maximum Daily Value:	16.0	kph	on Sep 21	Hours of Data:	720
Minimum Hourly Value:	0.1	kph	on Sep 20 at hr 17	Hours of Missing Data:	0
Minimum Daily Value:	3.0	kph	on Sep 9	Hours of Calibration:	0
Monthly Average:	4.7	kph		Operational Uptime:	100.0

<b>WIND DIRECTION</b>	
Monthly Average:	201 degree (SSW)

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	0.2	0.9	1.8	2.6	3.7	5.4	4.0	9.1	11.6	16.6	21.1	25.6	26.1	27.1	24.4	23.6	21.4	20.2	22.4	17.2	17.3	16.0	15.4	9.7	0.2	27.1	14.3
Sep 2	4.0	1.1	4.1	5.8	6.9	6.6	4.4	5.8	5.6	5.8	8.2	10.0	10.7	8.4	8.7	8.1	10.0	4.0	1.2	2.0	3.8	10.3	8.1	5.6	1.1	10.7	6.2
Sep 3	7.1	4.4	6.4	4.6	5.6	3.9	4.7	3.2	1.7	3.2	7.0	8.7	12.0	9.7	10.2	11.0	10.1	6.6	2.2	1.2	7.8	6.9	6.0	5.0	1.2	12.0	6.2
Sep 4	10.1	7.0	2.1	1.7	4.6	1.9	3.5	3.7	4.7	5.6	7.2	7.4	3.2	2.5	5.2	6.3	6.5	6.8	6.5	5.1	4.3	8.8	8.9	7.9	1.7	10.1	5.5
Sep 5	8.1	7.8	6.6	6.0	5.4	4.9	7.0	6.6	5.2	4.5	8.2	8.9	14.4	13.0	14.9	14.0	10.5	6.4	4.2	2.7	5.3	4.7	6.6	6.7	2.7	14.9	7.6
Sep 6	8.2	10.0	5.6	5.6	5.6	7.8	5.1	4.2	6.7	7.6	7.7	9.2	10.6	8.7	8.8	6.8	4.0	3.5	3.0	2.8	2.1	3.7	4.8	4.6	2.1	10.6	6.1
Sep 7	5.0	5.3	5.2	5.1	7.5	6.7	9.5	10.2	11.8	12.3	12.2	12.0	12.4	14.3	14.4	14.8	14.3	12.8	7.1	2.5	1.3	1.0	1.8	5.5	1.0	14.8	8.5
Sep 8	4.4	4.1	4.6	6.6	6.1	6.1	5.7	8.7	9.7	12.4	11.7	11.5	11.2	9.5	5.7	4.8	2.3	1.4	1.5	0.5	0.9	1.9	1.7	1.7	0.5	12.4	5.6
Sep 9	1.4	1.5	2.4	1.8	2.0	1.2	1.5	1.5	2.1	2.3	2.7	5.0	2.5	2.1	5.4	5.9	3.6	4.6	5.2	5.9	3.0	1.4	2.2	4.3	1.2	5.9	3.0
Sep 10	5.2	7.1	7.1	6.0	5.6	4.9	5.4	6.2	5.1	4.2	4.6	6.9	10.1	10.3	10.2	8.9	10.5	9.6	3.6	3.3	3.8	6.5	7.5	6.3	3.3	10.5	6.6
Sep 11	7.6	8.6	7.1	6.6	7.2	7.6	7.1	9.0	10.8	12.5	10.6	12.5	11.4	11.3	14.9	12.1	6.4	2.8	3.7	7.9	7.8	7.9	7.5	6.6	2.8	14.9	8.6
Sep 12	6.7	7.3	7.2	7.2	8.2	8.3	7.2	7.9	8.5	8.6	7.3	10.1	10.9	11.6	11.9	10.8	4.9	0.6	0.9	6.1	8.5	4.0	5.8	11.8	0.6	11.9	7.6
Sep 13	12.1	13.9	13.1	10.3	7.1	11.6	12.0	13.8	16.1	25.7	27.7	26.2	27.5	23.2	18.6	9.2	1.5	4.5	6.6	5.0	6.1	6.0	6.7	4.3	1.5	27.7	12.9
Sep 14	1.2	1.6	1.2	1.8	2.2	4.0	3.0	3.5	5.8	7.3	7.2	7.2	10.3	10.2	12.0	11.8	13.5	8.2	5.8	4.2	9.5	11.3	11.4	12.2	1.2	13.5	6.9
Sep 15	11.1	7.7	6.7	10.7	8.8	9.2	10.8	12.5	9.8	8.0	11.1	14.2	14.0	19.0	20.3	20.7	21.2	16.4	10.8	11.3	7.2	0.9	1.1	4.1	0.9	21.2	11.2
Sep 16	3.2	5.8	5.7	6.2	5.2	7.3	4.8	7.3	6.7	10.1	9.2	6.8	12.4	13.1	13.2	12.6	9.3	8.9	9.3	9.3	6.6	6.5	5.4	5.5	3.2	13.2	7.9
Sep 17	6.6	6.3	5.3	0.7	0.4	3.9	6.4	7.0	5.3	4.6	10.9	13.9	13.7	14.5	17.3	21.2	17.2	12.8	12.2	13.3	11.0	9.7	7.2	9.3	0.4	21.2	9.6
Sep 18	8.9	9.8	16.0	16.1	10.1	15.3	15.1	18.4	14.9	16.6	19.7	19.6	20.3	18.5	20.7	22.5	20.5	20.9	14.5	12.1	12.2	11.0	10.7	8.9	8.9	22.5	16.0
Sep 19	9.7	11.6	11.6	13.5	11.2	12.6	11.1	11.0	12.9	15.4	15.4	16.0	13.0	14.8	14.7	16.2	14.4	11.2	6.0	7.1	5.7	5.9	4.8	3.0	3.0	16.2	11.2
Sep 20	3.3	3.6	3.2	5.2	2.8	2.7	1.2	1.7	2.6	3.3	3.7	1.2	3.6	5.8	8.3	6.2	4.0	0.1	0.7	1.6	2.9	6.4	9.8	7.3	0.1	9.8	3.8
Sep 21	6.6	9.4	11.7	12.8	12.8	13.5	12.0	17.1	17.2	19.2	20.3	20.7	20.5	20.8	21.3	21.3	18.1	14.5	17.1	17.6	19.1	15.1	13.6	11.0	6.6	21.3	16.0
Sep 22	9.9	9.1	8.1	7.5	7.7	6.4	3.5	10.4	8.8	11.4	10.1	12.5	13.0	13.6	15.5	14.3	17.3	12.6	6.7	5.5	7.8	7.4	10.5	11.0	3.5	17.3	10.0
Sep 23	4.8	7.8	10.4	9.2	8.0	7.3	7.5	6.1	5.6	3.5	1.6	0.2	5.3	6.4	4.6	4.9	6.8	3.4	8.5	18.0	15.6	6.4	8.1	11.1	0.2	18.0	7.1
Sep 24	12.7	11.4	12.8	8.6	6.9	10.6	9.0	7.8	7.5	13.7	17.7	17.8	20.4	22.0	18.1	13.3	12.7	10.3	11.3	6.5	6.2	5.2	3.8	4.2	3.8	22.0	11.3
Sep 25	4.1	2.4	2.0	1.9	2.4	5.2	5.1	4.4	7.3	10.3	10.4	9.9	14.1	14.8	15.5	15.0	13.4	12.7	9.3	12.0	14.2	13.7	11.9	9.3	1.9	15.5	9.2
Sep 26	6.4	5.6	6.7	8.1	7.7	8.9	7.4	8.9	6.2	7.5	9.2	5.0	10.9	9.4	11.4	13.3	11.6	7.9	1.7	0.4	2.0	1.8	1.9	2.4	0.4	13.3	6.8
Sep 27	4.3	2.2	1.6	1.2	5.7	10.2	10.6	5.9	7.2	13.8	21.0	22.0	18.3	16.6	10.9	9.5	7.4	7.7	7.0	6.9	7.4	7.4	4.2	6.1	1.2	22.0	9.0
Sep 28	5.9	4.7	3.1	2.5	1.8	2.1	0.9	1.0	3.1	7.0	4.7	4.3	4.9	6.0	6.9	5.2	5.4	5.7	5.3	3.9	5.2	6.3	4.8	4.2	0.9	7.0	4.4
Sep 29	4.5	3.1	2.3	2.4	4.2	5.2	4.4	4.0	4.5	5.2	5.5	6.4	5.7	3.8	1.1	2.8	1.7	1.5	1.3	3.3	3.1	0.9	1.6	1.5	0.9	6.4	3.3
Sep 30	2.2	3.7	2.8	1.2	3.2	4.7	3.1	3.4	3.8	4.7	6.3	10.0	9.6	8.3	7.3	6.5	7.1	5.4	4.5	6.7	6.7	7.1	7.8	10.9	1.2	10.9	5.7

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

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

## RENO -B STATION

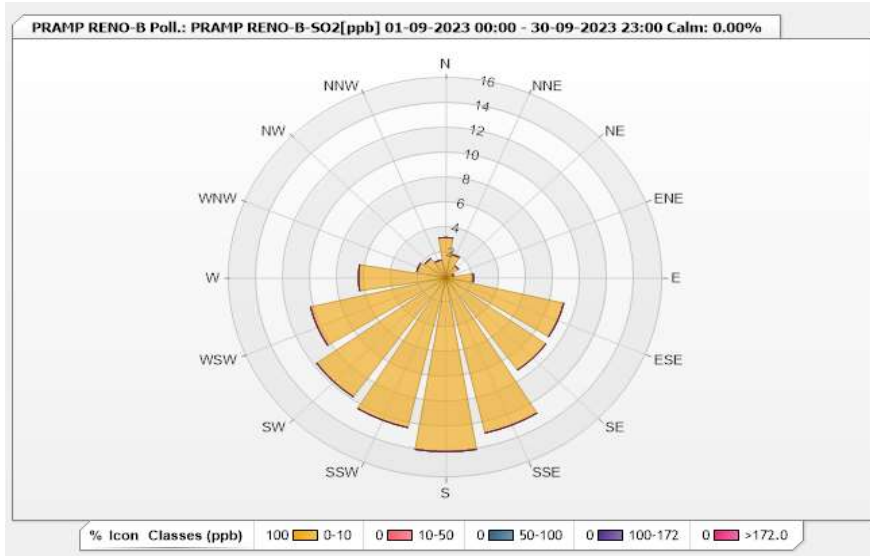


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-SO2[ppb] Monthly: 09-2023

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

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

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	3.23	0	0	0	0	3.23
NNE	1.91	0	0	0	0	1.91
NE	1.17	0	0	0	0	1.17
ENE	0.59	0	0	0	0	0.59
E	2.05	0	0	0	0	2.05
ESE	8.94	0	0	0	0	8.94
SE	9.09	0	0	0	0	9.09
SSE	12.76	0	0	0	0	12.76
S	13.93	0	0	0	0	13.93
SSW	12.32	0	0	0	0	12.32
SW	11.73	0	0	0	0	11.73
WSW	10.26	0	0	0	0	10.26
W	6.45	0	0	0	0	6.45
WNW	2.2	0	0	0	0	2.2
NW	1.91	0	0	0	0	1.91
NNW	1.47	0	0	0	0	1.47
Summary	100	0	0	0	0	100



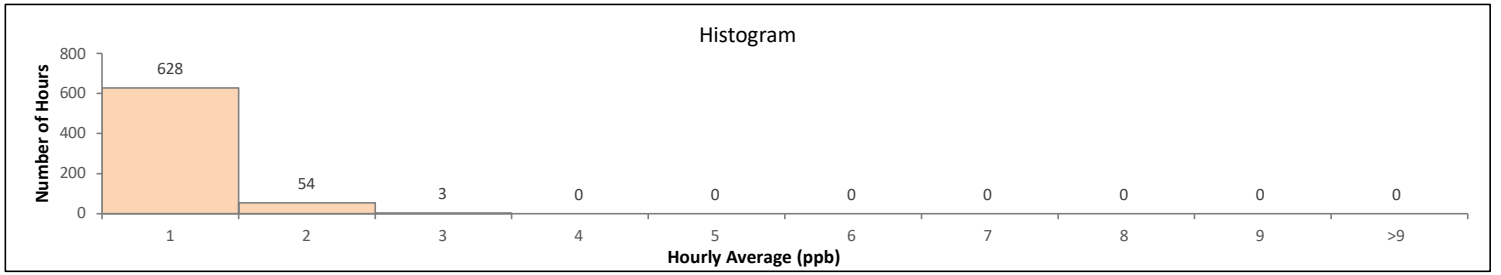
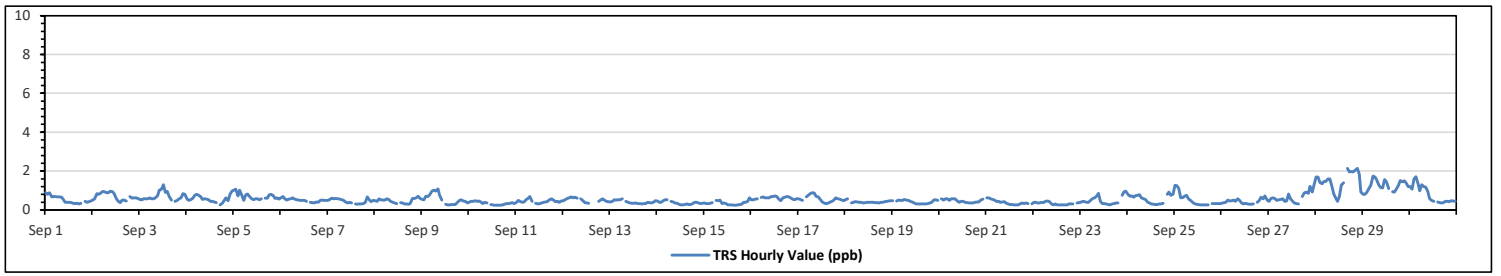
**Peace River Area Monitoring Program**  
**Reno-B Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL REDUCED SULPHUR (TRS) in ppb**

Maximum Hourly Value:	2.13 ppb	on Sep 28 at hr 16	Hours in Service:	720
Maximum Daily Value:	1.47 ppb	on Sep 28	Hours of Data:	685
Minimum Hourly Value:	0.24 ppb	on Sep 10 at hr 13	Hours of Missing Data:	0
Minimum Daily Value:	0.33 ppb	on Sep 22	Hours of Calibration:	35
Monthly Average:	0.56 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
Sep 1	0.88	0.8	0.88	0.67	0.69	0.68	0.67	0.67	0.65	0.54	0.38	0.38	0.38	0.37	0.34	0.33	0.34	0.31	0.34	S	0.43	0.4	0.42	0.46	0.31	0.88	0.52
Sep 2	0.5	0.58	0.83	0.79	0.85	0.95	0.94	0.88	0.89	0.98	0.94	0.83	0.56	0.44	0.37	0.5	0.5	0.46	S	0.68	0.6	0.62	0.62	0.59	0.37	0.98	0.69
Sep 3	0.54	0.53	0.56	0.58	0.57	0.61	0.57	0.58	0.61	0.73	1.02	1.07	1.3	0.9	0.95	0.68	0.51	S	0.43	0.49	0.57	0.61	0.83	0.79	0.43	1.30	0.70
Sep 4	0.55	0.49	0.53	0.6	0.74	0.8	0.75	0.68	0.54	0.56	0.55	0.52	0.45	0.43	0.41	0.37	S	0.27	0.34	0.49	0.61	0.47	0.81	0.97	0.27	0.97	0.56
Sep 5	1.02	1.06	0.72	1.02	0.74	0.48	0.77	0.82	0.68	0.58	0.52	0.58	0.58	0.53	0.56	S	0.6	0.6	0.77	0.79	0.73	0.59	0.61	0.55	0.48	1.06	0.69
Sep 6	0.61	0.69	0.56	0.51	0.55	0.57	0.62	0.55	0.52	0.5	0.49	0.49	0.48	0.45	S	0.39	0.37	0.36	0.41	0.4	0.48	0.51	0.48	0.49	0.36	0.69	0.50
Sep 7	0.49	0.54	0.6	0.57	0.59	0.57	0.55	0.53	0.48	0.41	0.36	0.38	0.36	S	0.31	0.29	0.3	0.3	0.32	0.39	0.67	0.53	0.42	0.48	0.29	0.67	0.45
Sep 8	0.47	0.45	0.56	0.53	0.51	0.51	0.57	0.54	0.43	0.39	0.36	0.32	S	0.37	0.35	0.31	0.3	0.29	0.32	0.59	0.62	0.71	0.59	0.29	0.71	0.46	
Sep 9	0.54	0.52	0.7	0.68	0.81	0.97	1.01	0.97	1.08	0.76	0.51	S	0.29	0.27	0.27	0.28	0.28	0.28	0.38	0.48	0.53	0.46	0.43	0.36	0.27	1.08	0.56
Sep 10	0.4	0.44	0.44	0.47	0.43	0.46	0.41	0.33	0.38	0.35	S	0.28	0.26	0.24	0.24	0.24	0.24	0.27	0.29	0.33	0.33	0.34	0.37	0.32	0.24	0.47	0.34
Sep 11	0.37	0.49	0.43	0.38	0.41	0.52	0.59	0.69	0.44	S	0.34	0.3	0.33	0.35	0.38	0.41	0.45	0.53	0.57	0.51	0.42	0.45	0.4	0.46	0.30	0.69	0.44
Sep 12	0.47	0.53	0.59	0.62	0.67	0.62	0.66	0.6	S	0.57	0.47	0.37	0.35	0.34	C	C	C	C	0.43	0.5	0.57	0.51	0.43	0.42	0.34	0.67	0.51
Sep 13	0.41	0.43	0.53	0.51	0.53	0.52	0.56	S	0.44	0.4	0.36	0.34	0.34	0.35	0.32	0.32	0.31	0.32	0.33	0.38	0.37	0.36	0.39	0.47	0.31	0.56	0.40
Sep 14	0.46	0.38	0.4	0.47	0.52	0.52	S	0.45	0.41	0.36	0.34	0.29	0.27	0.26	0.28	0.3	0.28	0.28	0.32	0.38	0.4	0.36	0.33	0.34	0.26	0.52	0.37
Sep 15	0.36	0.33	0.33	0.34	0.37	S	0.49	0.47	0.5	0.32	0.36	0.32	0.26	0.27	0.26	0.24	0.24	0.26	0.28	0.29	0.39	0.38	0.45	0.62	0.24	0.62	0.35
Sep 16	0.53	0.53	0.55	0.57	S	0.64	0.67	0.61	0.63	0.63	0.68	0.68	0.72	0.69	0.55	0.47	0.61	0.65	0.68	0.67	0.61	0.55	0.52	0.67	0.47	0.72	0.61
Sep 17	0.56	0.54	0.48	S	0.67	0.76	0.83	0.89	0.87	0.7	0.67	0.55	0.42	0.35	0.33	0.34	0.39	0.45	0.5	0.61	0.56	0.55	0.5	0.47	0.33	0.89	0.56
Sep 18	0.53	0.57	S	0.35	0.4	0.42	0.41	0.4	0.38	0.36	0.37	0.4	0.4	0.38	0.38	0.37	0.37	0.35	0.38	0.39	0.42	0.43	0.46	0.47	0.35	0.57	0.41
Sep 19	0.47	S	0.46	0.5	0.49	0.48	0.54	0.5	0.49	0.44	0.41	0.35	0.31	0.31	0.31	0.3	0.3	0.3	0.32	0.35	0.4	0.5	0.53	0.49	0.30	0.54	0.42
Sep 20	S	0.56	0.51	0.57	0.57	0.49	0.56	0.57	0.56	0.46	0.4	0.43	0.44	0.39	0.37	0.36	0.36	0.36	0.38	0.41	0.41	0.5	0.55	S	0.36	0.57	0.46
Sep 21	0.63	0.62	0.56	0.54	0.5	0.45	0.43	0.4	0.41	0.42	0.34	0.31	0.28	0.28	0.25	0.26	0.27	0.3	0.35	0.33	0.36	0.33	S	0.31	0.25	0.63	0.39
Sep 22	0.38	0.4	0.36	0.36	0.38	0.37	0.45	0.46	0.42	0.3	0.27	0.3	0.27	0.27	0.26	0.25	0.25	0.3	0.3	0.3	S	0.36	0.37	0.25	0.46	0.33	
Sep 23	0.39	0.44	0.42	0.4	0.4	0.48	0.59	0.61	0.68	0.86	0.44	0.33	0.32	0.3	0.28	0.27	0.3	0.32	0.35	0.36	S	0.74	0.94	0.96	0.27	0.96	0.49
Sep 24	0.79	0.71	0.72	0.65	0.73	0.74	0.78	0.62	0.56	0.54	0.41	0.36	0.3	0.29	0.28	0.28	0.3	0.3	0.34	S	0.79	0.92	0.76	0.8	0.28	0.92	0.56
Sep 25	1.26	1.24	1.09	0.62	0.64	0.71	0.74	0.55	0.48	0.39	0.32	0.29	0.28	0.27	0.26	0.25	0.27	0.27	S	0.32	0.33	0.33	0.32	0.32	0.25	1.26	0.50
Sep 26	0.34	0.37	0.38	0.5	0.46	0.47	0.5	0.43	0.58	0.49	0.35	0.31	0.34	0.31	0.29	0.29	0.31	S	0.39	0.47	0.65	0.58	0.72	0.5	0.29	0.72	0.44
Sep 27	0.45	0.59	0.63	0.59	0.48	0.52	0.54	0.56	0.45	0.46	0.82	0.58	0.44	0.35	0.32	0.3	S	0.68	0.87	0.92	0.86	1.22	0.92	1.31	0.30	1.31	0.65
Sep 28	1.69	1.69	1.42	1.35	1.47	1.46	1.6	1.59	1.25	0.83	0.62	0.43	0.71	1.29	1.4	S	2.13	1.96	1.97	1.95	2.05	2.13	1.84	0.91	0.43	2.13	1.47
Sep 29	0.79	0.81	0.91	1.09	1.26	1.75	1.68	1.55	1.28	1.16	1.13	1.55	1.45	1.11	S	0.94	0.92	1.08	1.24	1.5	1.45	1.49	1.39	1.2	0.79	1.75	1.25
Sep 30	1.19	1.07	1.59	1.71	1.34	0.99	1.3	1.19	1.17	0.95	0.58	0.48	0.43	S	0.41	0.37	0.35	0.37	0.43	0.44	0.42	0.47	0.46	0.43	0.35	1.71	0.79
Diurnal Maximum	1.69	1.69	1.59	1.71	1.47	1.75	1.68	1.59	1.28	1.16	1.13	1.55	1.45	1.29	1.40	0.94	2.13	1.96	1.97	1.95	2.05	2.13	1.84	1.31			
Diurnal Average	0.62	0.63	0.65	0.64	0.65	0.67	0.72	0.68	0.63	0.57	0.51	0.48	0.46	0.43	0.40	0.36	0.44	0.45	0.50	0.56	0.60	0.62	0.62	0.59			

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

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

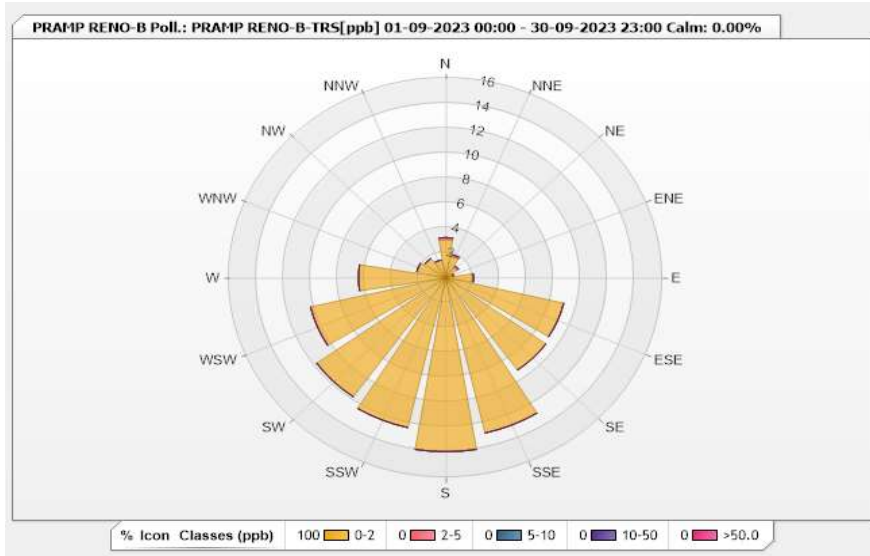


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-TRS[ppb] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	3.08	0.15	0	0	0	3.23
NNE	1.76	0.15	0	0	0	1.91
NE	1.03	0.15	0	0	0	1.18
ENE	0.59	0	0	0	0	0.59
E	2.05	0	0	0	0	2.05
ESE	8.94	0	0	0	0	8.94
SE	9.09	0	0	0	0	9.09
SSE	12.76	0	0	0	0	12.76
S	13.93	0	0	0	0	13.93
SSW	12.32	0	0	0	0	12.32
SW	11.73	0	0	0	0	11.73
WSW	10.26	0	0	0	0	10.26
W	6.45	0	0	0	0	6.45
WNW	2.2	0	0	0	0	2.2
NW	1.91	0	0	0	0	1.91
NNW	1.47	0	0	0	0	1.47
Summary	100	0.45	0	0	0	100





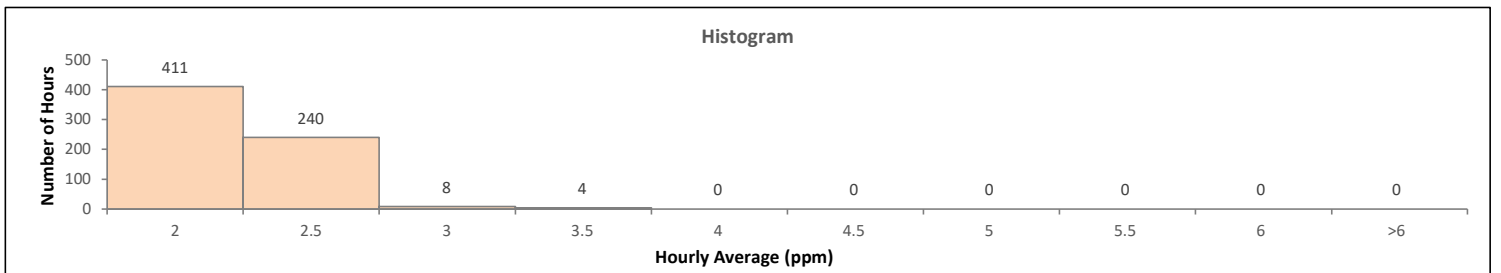
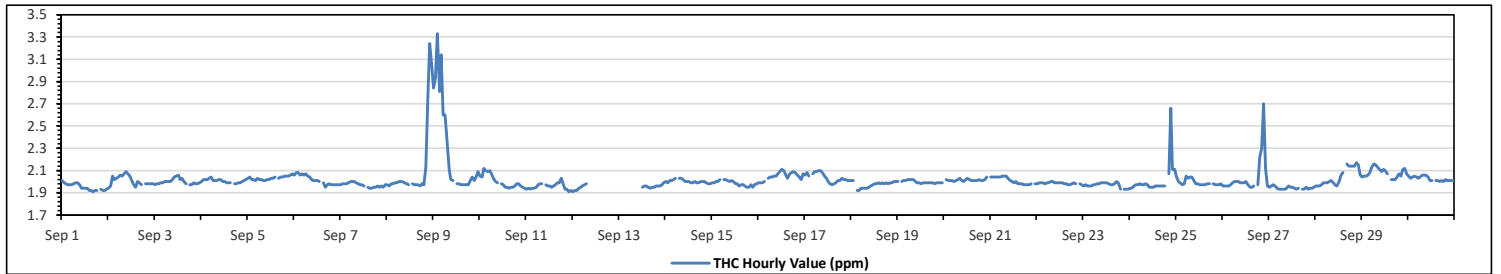
**Peace River Area Monitoring Program**  
**Reno-B Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL HYDROCARBONS (THC) in ppm**

Maximum Hourly Value:	3.33 ppm	on Sep 9 at hr 2	Hours in Service:	720
Maximum Daily Value:	2.29 ppm	on Sep 9	Hours of Data:	663
Minimum Hourly Value:	1.91 ppm	on Sep 1 at hr 16	Hours of Missing Data:	22
Minimum Daily Value:	1.94 ppm	on Sep 27	Hours of Calibration:	35
Monthly Average:	2.02 ppm		Operational Uptime:	96.9

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	
Sep 1	2.01	1.99	1.98	1.97	1.97	1.97	1.98	1.99	1.99	1.97	1.94	1.94	1.94	1.94	1.92	1.92	1.91	1.92	1.92	S	1.93	1.92	1.92	1.93	1.91	2.01	1.95	
Sep 2	1.94	1.96	2.05	2.02	2.03	2.04	2.06	2.05	2.07	2.09	2.07	2.05	2.01	1.97	1.95	2.00	1.99	1.97	S	1.98	1.98	1.98	1.98	1.98	1.94	2.09	2.01	
Sep 3	1.97	1.98	1.98	1.99	1.99	2.00	2.00	2.00	2.00	2.02	2.04	2.05	2.06	2.02	2.03	2.00	1.98	S	1.97	1.97	1.99	1.98	1.98	1.99	1.97	2.06	2.00	
Sep 4	2.00	2.02	2.02	2.02	2.03	2.04	2.01	2.01	2.01	2.02	2.02	2.00	2.00	1.99	1.99	1.99	S	1.98	1.98	1.99	1.99	2.00	2.01	2.02	1.98	2.04	2.01	
Sep 5	2.03	2.04	2.02	2.02	2.01	2.03	2.02	2.02	2.01	2.01	2.02	2.02	2.03	2.03	2.04	S	2.03	2.04	2.04	2.05	2.05	2.05	2.06	2.07	2.01	2.07	2.03	
Sep 6	2.06	2.08	2.08	2.06	2.07	2.06	2.07	2.05	2.04	2.02	2.01	2.01	2.01	2.00	S	1.99	1.95	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.95	2.08	2.02	
Sep 7	1.97	1.98	1.98	1.98	1.99	2.00	2.00	2.00	1.99	1.98	1.97	1.97	1.96	S	1.95	1.94	1.94	1.95	1.96	1.95	1.96	1.95	1.97	1.97	1.94	2.00	1.97	
Sep 8	1.97	1.96	1.98	1.98	1.99	1.99	2.00	2.00	2.00	1.99	1.98	1.97	S	1.98	1.97	1.97	1.97	1.96	1.98	1.97	2.13	2.73	3.24	3.06	1.96	3.24	2.12	
Sep 9	2.84	2.93	3.33	2.81	3.14	2.60	2.60	2.34	2.11	2.02	2.01	S	1.98	1.98	1.97	1.97	1.97	1.97	1.97	2.01	2.04	2.01	2.04	2.09	1.97	3.33	2.29	
Sep 10	2.05	2.04	2.12	2.10	2.09	2.10	2.07	2.03	2.00	1.99	S	1.98	1.97	1.95	1.95	1.94	1.95	1.95	1.96	1.98	1.98	1.98	1.96	1.95	1.94	1.94	2.12	2.00
Sep 11	1.93	1.94	1.93	1.94	1.94	1.95	1.97	1.98	1.98	S	1.97	1.96	1.96	1.95	1.96	1.97	1.99	1.99	2.03	1.97	1.93	1.93	1.91	1.92	1.91	2.13	1.96	
Sep 12	1.91	1.92	1.92	1.94	1.95	1.96	1.97	1.98	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.91	1.98	NA	
Sep 13	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	1.95	1.96	1.96	1.95	1.94	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.99	1.94	1.99	NA	
Sep 14	2.00	1.99	2.01	2.01	2.02	2.03	S	2.03	2.03	2.02	2.00	2.00	2.00	1.99	1.99	2.00	1.99	1.99	2.00	2.00	2.00	1.99	1.98	1.98	1.98	2.03	2.00	
Sep 15	1.99	1.99	2.00	2.00	2.02	S	2.02	2.02	2.01	2.00	2.01	2.00	1.98	1.98	1.96	1.97	1.97	1.96	1.95	1.95	1.97	1.95	1.97	1.98	1.95	2.02	1.98	
Sep 16	1.99	1.99	1.99	2.00	S	2.03	2.04	2.04	2.05	2.05	2.07	2.09	2.11	2.10	2.06	2.03	2.07	2.08	2.09	2.08	2.06	2.04	2.02	2.07	1.99	2.11	2.05	
Sep 17	2.06	2.08	2.05	S	2.07	2.09	2.09	2.10	2.10	2.08	2.05	2.03	2.00	1.98	1.97	1.98	1.99	2.01	2.01	2.03	2.02	2.02	2.01	2.01	1.97	2.10	2.04	
Sep 18	2.01	2.01	S	1.92	1.92	1.94	1.94	1.94	1.95	1.96	1.97	1.98	1.98	1.99	1.98	1.99	1.98	1.99	1.98	1.99	1.98	1.99	2.00	2.00	1.92	2.01	1.97	
Sep 19	2.00	S	2.00	2.01	2.01	2.02	2.02	2.02	2.00	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.98	2.02	2.00	
Sep 20	S	2.02	2.01	2.01	2.01	2.00	2.01	2.02	2.03	2.01	2.00	2.02	2.03	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.02	2.04	S	2.00	2.04	2.02	
Sep 21	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.03	2.01	2.00	1.99	2.00	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.98	S	1.98	1.97	2.05	2.01	
Sep 22	1.98	1.99	1.99	1.99	1.98	1.99	1.99	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.97	1.97	1.98	1.99	1.98	S	1.98	1.97	1.97	2.00	1.99	
Sep 23	1.96	1.97	1.96	1.96	1.96	1.97	1.97	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.98	2.00	1.99	1.93	S	1.93	1.93	1.93	1.93	2.00	1.97	
Sep 24	1.94	1.94	1.96	1.97	1.97	1.98	1.97	1.97	1.98	1.97	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	S	2.07	2.66	2.11	2.11	1.94	2.66	2.01	
Sep 25	2.04	2.00	1.99	1.97	1.98	2.05	2.03	2.04	2.04	2.01	1.98	1.98	1.97	1.97	1.97	1.98	1.98	S	1.98	1.97	1.97	1.97	1.98	1.97	2.05	1.99		
Sep 26	1.96	1.96	1.96	1.96	1.97	1.99	2.00	2.00	2.00	1.99	1.99	1.99	2.00	1.97	1.95	1.95	1.96	S	1.97	2.22	2.30	2.70	2.12	1.96	1.95	2.70	2.04	
Sep 27	1.95	1.96	1.97	1.96	1.94	1.93	1.93	1.93	1.94	1.96	1.95	1.95	1.94	1.93	1.94	S	1.93	1.93	1.95	1.93	1.94	1.94	1.95	1.93	1.97	1.94		
Sep 28	1.96	1.96	1.96	1.97	1.99	1.99	1.99	2.00	2.01	1.99	1.97	1.96	2.00	2.06	2.08	S	2.16	2.14	2.14	2.14	2.17	2.15	2.06	1.96	2.17	2.04		
Sep 29	2.04	2.05	2.05	2.06	2.08	2.13	2.16	2.15	2.13	2.11	2.09	2.11	2.10	2.07	S	2.02	2.02	2.02	2.04	2.07	2.05	2.11	2.12	2.07	2.02	2.16	2.08	
Sep 30	2.05	2.03	2.04	2.05	2.04	2.03	2.04	2.06	2.06	2.06	2.04	2.01	2.01	2.01	S	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.02	2.03	
Diurnal Maximum	2.84	2.93	3.33	2.81	3.14	2.60	2.60	2.34	2.13	2.11	2.09	2.11	2.11	2.10	2.08	2.03	2.16	2.14	2.14	2.22	2.30	2.73	3.24	3.06				
Diurnal Average	2.02	2.03	2.05	2.03	2.04	2.03	2.04	2.03	2.02	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.99	1.99	1.99	2.00	2.01	2.07	2.05	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
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

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

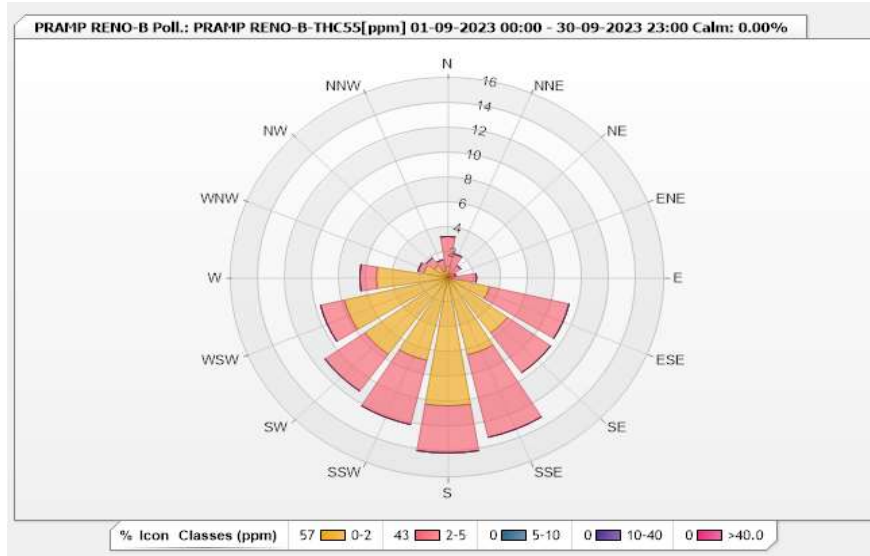


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-THC55[ppm] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 92.08%      Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.9	2.41	0	0	0	3.31
NNE	0	1.96	0	0	0	1.96
NE	0.15	1.06	0	0	0	1.21
ENE	0.15	0.45	0	0	0	0.6
E	0	2.11	0	0	0	2.11
ESE	3.17	6.03	0	0	0	9.2
SE	5.43	3.92	0	0	0	9.35
SSE	6.33	6.79	0	0	0	13.12
S	10.26	3.77	0	0	0	14.03
SSW	6.79	5.28	0	0	0	12.07
SW	7.54	3.62	0	0	0	11.16
WSW	7.84	1.81	0	0	0	9.65
W	5.28	1.21	0	0	0	6.49
WNW	1.81	0.45	0	0	0	2.26
NW	1.21	0.75	0	0	0	1.96
NNW	0.6	0.9	0	0	0	1.5
Summary	57.46	42.52	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - September 2023

Summary of Hourly Averages

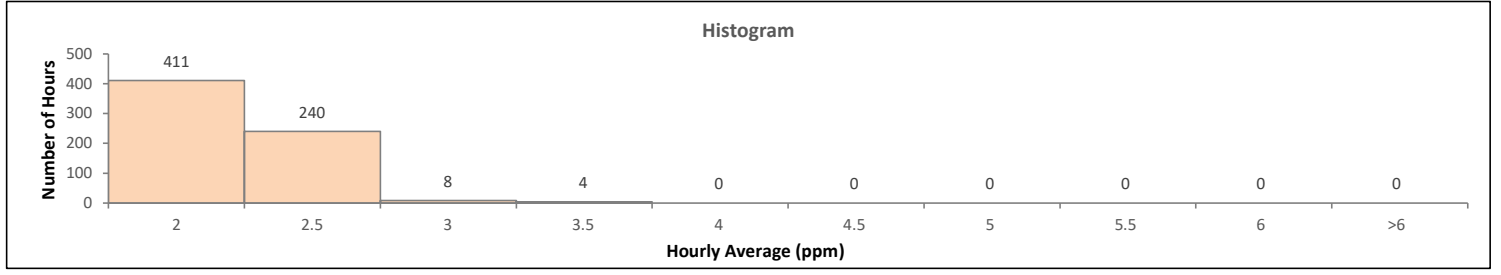
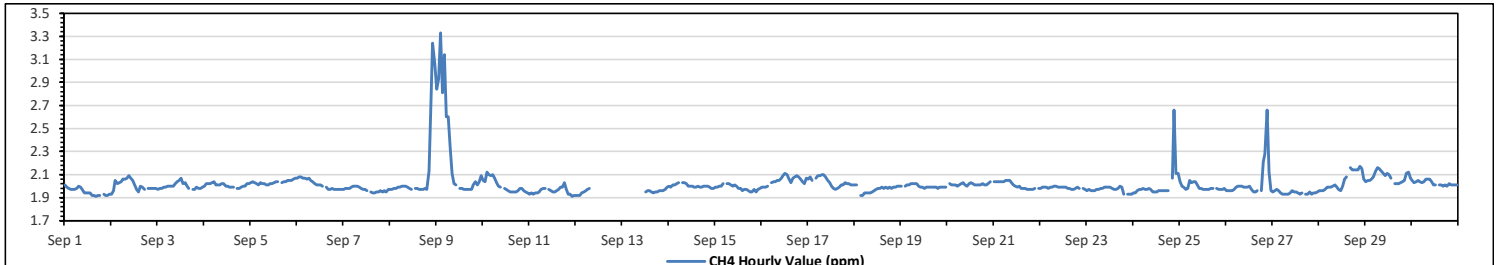
METHANE (CH4) in ppm

Maximum Hourly Value:	3.33 ppm	on Sep 9 at hr 2	Hours in Service:	720
Maximum Daily Value:	2.29 ppm	on Sep 9	Hours of Data:	663
Minimum Hourly Value:	1.91 ppm	on Sep 1 at hr 16	Hours of Missing Data:	22
Minimum Daily Value:	1.94 ppm	on Sep 27	Hours of Calibration:	35
Monthly Average:	2.02 ppm		Operational Uptime:	96.9

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	
Sep 1	2.01	1.99	1.98	1.97	1.97	1.97	1.98	2.00	1.99	1.97	1.94	1.94	1.94	1.94	1.92	1.92	1.91	1.92	1.92	S	1.93	1.92	1.92	1.93	1.91	2.01	1.95	
Sep 2	1.93	1.96	2.05	2.02	2.03	2.04	2.06	2.06	2.07	2.09	2.07	2.05	2.01	1.97	1.95	2.00	1.99	1.97	S	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	
Sep 3	1.97	1.98	1.98	1.99	1.99	2.00	2.00	2.00	2.00	2.02	2.04	2.05	2.07	2.02	2.03	2.00	1.98	S	1.97	1.97	1.99	1.98	1.98	1.99	1.97	2.07	2.00	
Sep 4	2.00	2.02	2.02	2.02	2.03	2.04	2.01	2.01	2.01	2.02	2.02	2.00	2.00	1.99	1.99	1.99	S	1.98	1.98	1.99	2.00	2.00	2.02	2.02	1.98	2.04	2.01	
Sep 5	2.03	2.04	2.03	2.02	2.01	2.03	2.02	2.02	2.01	2.01	2.02	2.02	2.03	2.04	2.04	S	2.03	2.04	2.04	2.05	2.05	2.05	2.06	2.07	2.01	2.07	2.03	
Sep 6	2.07	2.08	2.08	2.07	2.07	2.06	2.07	2.05	2.04	2.02	2.01	2.01	2.01	2.00	S	1.99	1.97	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	2.08	2.02	
Sep 7	1.97	1.98	1.98	1.98	1.99	2.00	2.00	2.00	1.99	1.98	1.97	1.97	1.96	S	1.95	1.94	1.94	1.95	1.96	1.95	1.96	1.95	1.97	1.97	1.94	2.00	1.97	
Sep 8	1.97	1.97	1.98	1.98	1.99	1.99	2.00	2.00	2.00	1.99	1.98	1.97	S	1.98	1.98	1.97	1.97	1.97	1.98	1.97	2.13	2.73	3.24	3.06	1.97	3.24	2.12	
Sep 9	2.84	2.93	3.33	2.81	3.14	2.60	2.60	2.34	2.11	2.02	2.01	S	1.98	1.98	1.97	1.97	1.97	1.97	1.97	2.01	2.04	2.01	2.04	2.09	1.97	3.33	2.29	
Sep 10	2.05	2.04	2.12	2.10	2.09	2.10	2.07	2.03	2.00	1.99	S	1.98	1.97	1.96	1.95	1.95	1.95	1.95	1.96	1.98	1.98	1.98	1.96	1.95	1.94	1.94	2.12	2.00
Sep 11	1.93	1.94	1.93	1.94	1.94	1.95	1.97	1.98	1.98	S	1.97	1.96	1.95	1.95	1.96	1.97	1.99	1.99	2.03	1.97	1.93	1.93	1.91	1.92	1.91	2.13	1.96	
Sep 12	1.92	1.92	1.92	1.94	1.95	1.96	1.97	1.98	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.92	1.98	NA	
Sep 13	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	1.95	1.96	1.96	1.95	1.94	1.95	1.95	1.96	1.96	1.96	1.97	1.99	1.94	1.99	NA	
Sep 14	2.00	1.99	2.01	2.01	2.02	2.03	S	2.03	2.03	2.02	2.00	2.00	2.00	1.99	1.99	2.00	1.99	1.99	2.00	2.00	2.00	1.99	1.98	1.98	1.98	2.03	2.00	
Sep 15	1.99	1.99	2.00	2.00	2.02	S	2.02	2.02	2.01	2.00	2.01	2.00	1.98	1.98	1.96	1.97	1.97	1.96	1.95	1.95	1.97	1.95	1.97	1.98	1.95	2.02	1.98	
Sep 16	1.99	1.99	1.99	2.00	S	2.03	2.04	2.04	2.05	2.05	2.07	2.09	2.11	2.10	2.06	2.03	2.07	2.08	2.09	2.08	2.06	2.04	2.02	2.07	1.99	2.11	2.05	
Sep 17	2.06	2.08	2.05	S	2.07	2.09	2.09	2.10	2.10	2.08	2.05	2.03	2.00	1.98	1.97	1.98	1.99	2.01	2.01	2.03	2.02	2.02	2.01	2.01	1.97	2.10	2.04	
Sep 18	2.01	2.01	S	1.92	1.92	1.94	1.94	1.94	1.94	1.95	1.96	1.97	1.98	1.98	1.99	1.98	1.99	1.98	1.99	1.98	1.99	1.99	2.00	2.00	1.92	2.01	1.97	
Sep 19	2.00	S	2.00	2.01	2.01	2.02	2.02	2.02	2.00	1.99	1.99	1.98	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.98	2.02	2.00	
Sep 20	S	2.02	2.01	2.01	2.01	2.00	2.01	2.02	2.03	2.01	2.00	2.02	2.03	2.02	2.01	2.01	2.01	2.02	2.01	2.01	2.02	2.01	2.02	2.04	S	2.00	2.04	2.02
Sep 21	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.03	2.01	2.00	1.99	2.00	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.98	S	1.98	2.05	2.01
Sep 22	1.98	1.99	1.99	1.99	1.98	1.99	1.99	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.97	1.97	1.98	1.99	1.98	S	1.98	1.97	1.97	2.00	1.99	
Sep 23	1.96	1.97	1.96	1.96	1.96	1.97	1.97	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.98	2.00	1.99	1.93	S	1.93	1.93	1.93	1.93	2.00	1.97	
Sep 24	1.94	1.94	1.96	1.97	1.97	1.98	1.97	1.97	1.98	1.97	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	S	2.07	2.66	2.11	2.11	1.94	2.66	2.01
Sep 25	2.04	2.00	1.99	1.97	1.98	2.05	2.03	2.04	2.04	2.01	1.98	1.98	1.97	1.97	1.97	1.98	1.98	S	1.98	1.97	1.97	1.97	1.98	1.97	2.05	1.99	1.99	
Sep 26	1.96	1.96	1.96	1.96	1.97	1.99	2.00	2.00	2.00	1.99	1.99	1.99	2.00	1.97	1.95	1.95	1.96	S	1.96	2.21	2.28	2.66	2.12	1.96	1.95	2.66	2.03	
Sep 27	1.95	1.96	1.97	1.96	1.94	1.93	1.93	1.93	1.94	1.96	1.95	1.95	1.94	1.93	1.94	S	1.93	1.93	1.95	1.93	1.94	1.94	1.95	1.93	1.97	1.94	1.94	
Sep 28	1.96	1.96	1.96	1.97	1.99	1.99	1.99	2.00	2.01	1.99	1.97	1.96	2.00	2.06	2.08	S	2.16	2.14	2.14	2.14	2.14	2.17	2.15	2.06	1.96	2.17	2.04	
Sep 29	2.04	2.05	2.05	2.06	2.08	2.13	2.16	2.15	2.13	2.11	2.09	2.11	2.10	2.07	S	2.02	2.02	2.02	2.03	2.04	2.05	2.11	2.12	2.07	2.02	2.16	2.08	
Sep 30	2.05	2.03	2.04	2.05	2.04	2.03	2.04	2.06	2.06	2.06	2.04	2.01	2.01	2.01	S	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.03
Diurnal Maximum	2.84	2.93	3.33	2.81	3.14	2.60	2.60	2.34	2.13	2.11	2.09	2.11	2.11	2.10	2.08	2.03	2.16	2.14	2.14	2.21	2.28	2.73	3.24	3.06				
Diurnal Average	2.02	2.03	2.05	2.03	2.04	2.03	2.04	2.03	2.02	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.99	1.99	1.99	2.00	2.01	2.07	2.05	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
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

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

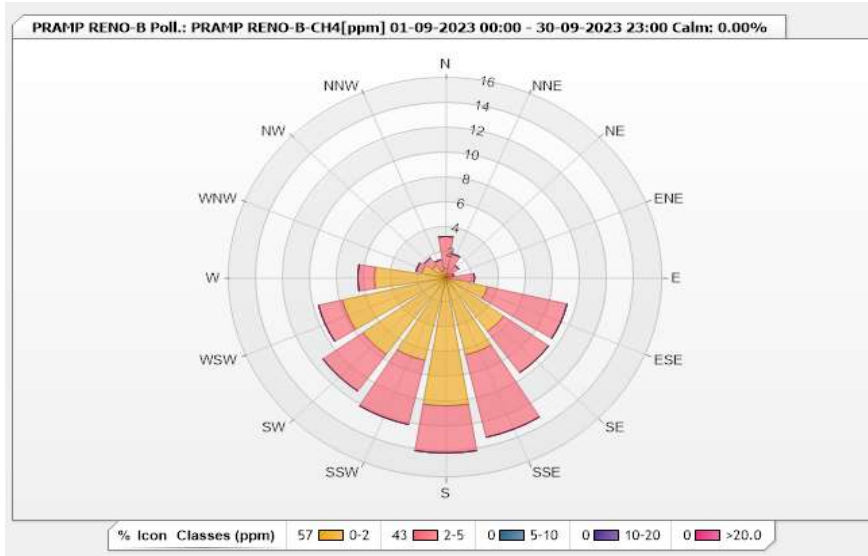


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-CH4[ppm] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 92.08%      Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.75	2.56	0	0	0	3.31
NNE	0	1.96	0	0	0	1.96
NE	0.15	1.06	0	0	0	1.21
ENE	0.15	0.45	0	0	0	0.6
E	0	2.11	0	0	0	2.11
ESE	3.17	6.03	0	0	0	9.2
SE	5.28	4.07	0	0	0	9.35
SSE	6.33	6.79	0	0	0	13.12
S	10.26	3.77	0	0	0	14.03
SSW	6.79	5.28	0	0	0	12.07
SW	7.54	3.62	0	0	0	11.16
WSW	7.84	1.81	0	0	0	9.65
W	5.28	1.21	0	0	0	6.49
WNW	1.81	0.45	0	0	0	2.26
NW	1.21	0.75	0	0	0	1.96
NNW	0.6	0.9	0	0	0	1.5
Summary	57.16	42.82	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - September 2023

Summary of Hourly Averages

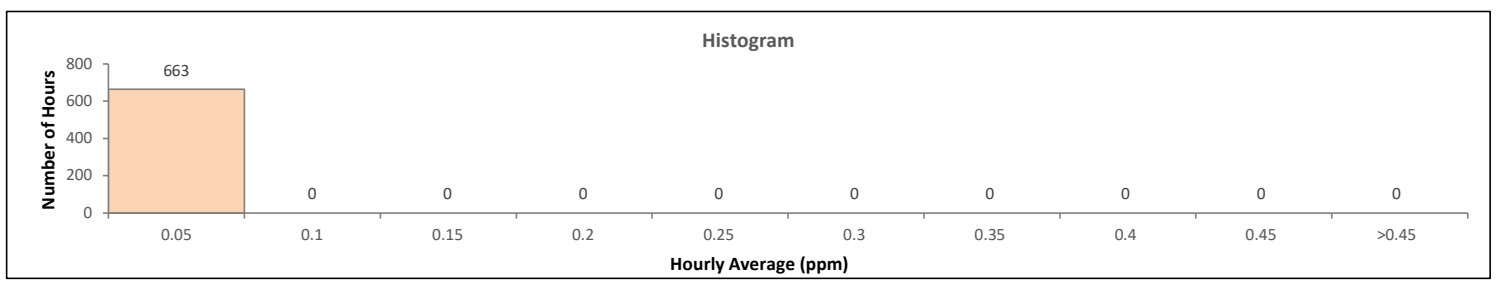
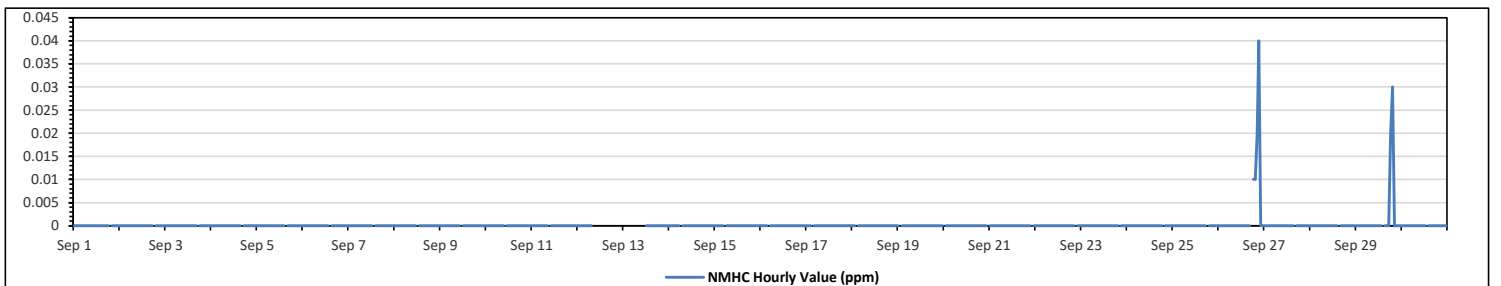
NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:	0.04 ppm	on Sep 26 at hr 21	Hours in Service:	720
Maximum Daily Value:	0.00 ppm	on Sep 26	Hours of Data:	663
Minimum Hourly Value:	0.00 ppm	on Sep 1 at hr 0	Hours of Missing Data:	22
Minimum Daily Value:	0.00 ppm	on Sep 1	Hours of Calibration:	35
Monthly Average:	0.00 ppm		Operational Uptime:	96.9

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								
Sep 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sep 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 13	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sep 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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

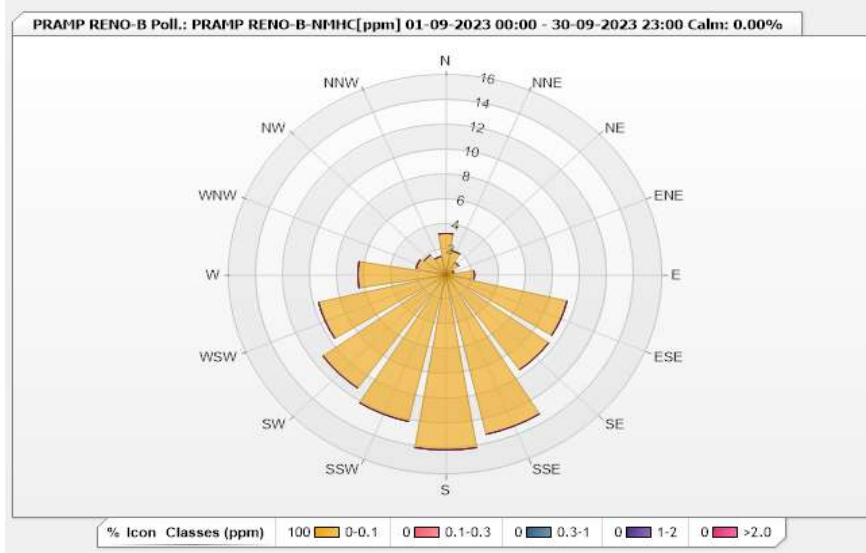


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-NMHC[ppm] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 92.08%      Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	3.32	0	0	0	0	3.32
NNE	1.96	0	0	0	0	1.96
NE	1.21	0	0	0	0	1.21
ENE	0.6	0	0	0	0	0.6
E	2.11	0	0	0	0	2.11
ESE	9.2	0	0	0	0	9.2
SE	9.35	0	0	0	0	9.35
SSE	13.12	0	0	0	0	13.12
S	14.03	0	0	0	0	14.03
SSW	12.07	0	0	0	0	12.07
SW	11.16	0	0	0	0	11.16
WSW	9.65	0	0	0	0	9.65
W	6.49	0	0	0	0	6.49
WNW	2.26	0	0	0	0	2.26
NW	1.96	0	0	0	0	1.96
NNW	1.51	0	0	0	0	1.51
Summary	100	0	0	0	0	100



**Peace River Area Monitoring Program**

**Reno-B Station - September 2023**

**Summary of Hourly Averages**

**RELATIVE HUMIDITY (RH) in %**

Maximum Hourly Value:	100	%	on Sep 5 at hr 22	Hours in Service:	720
Maximum Daily Value:	94.2	%	on Sep 29	Hours of Data:	717
Minimum Hourly Value:	19	%	on Sep 15 at hr 15	Hours of Missing Data:	3
Minimum Daily Value:	43.1	%	on Sep 15	Hours of Calibration:	0
Monthly Average:	65.0	%		Operational Uptime:	99.6

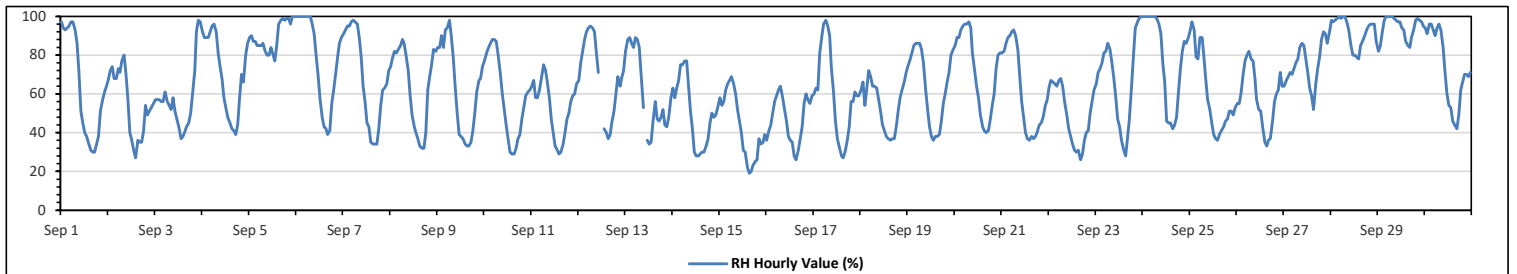
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	97	94	93	94	95	97	97	93	86	71	51	45	40	38	34	31	30	30	34	38	51	57	61	64	30	97	63.4	
Sep 2	67	72	74	68	68	73	71	77	80	70	57	40	36	31	27	36	35	35	41	54	49	51	53	55	27	80	55.0	
Sep 3	57	57	57	56	56	61	56	54	52	58	51	47	43	37	38	40	43	45	50	60	72	92	98	97	37	98	57.4	
Sep 4	92	89	89	89	92	95	96	92	81	74	68	58	53	48	45	42	41	39	44	58	70	66	80	86	39	96	70.3	
Sep 5	89	90	87	87	85	85	85	86	82	80	80	84	80	77	85	96	98	99	98	99	99	96	100	100	77	100	89.5	
Sep 6	100	100	100	100	100	100	100	100	96	91	80	70	58	48	43	42	39	41	55	62	70	80	86	89	39	100	77.1	
Sep 7	91	93	95	95	97	98	97	96	89	79	64	56	45	43	35	34	34	34	42	54	62	63	65	72	34	98	68.0	
Sep 8	74	78	82	81	83	85	88	86	80	72	59	49	43	40	37	33	32	32	40	62	69	75	83	82	32	88	64.4	
Sep 9	84	84	90	84	93	94	98	89	78	63	50	39	38	37	34	33	33	35	41	50	61	67	68	74	33	98	63.2	
Sep 10	77	81	84	86	88	88	87	80	70	60	52	44	37	30	29	29	32	37	39	47	53	59	61	62	29	88	58.8	
Sep 11	64	67	58	58	62	68	75	72	67	58	47	40	33	31	29	30	34	40	47	50	56	59	60	65	29	75	52.9	
Sep 12	67	76	82	88	92	94	95	94	92	81	71	K	K	K	42	40	37	39	45	51	60	69	64	69	72	37	95	69.1
Sep 13	82	88	89	86	84	89	88	84	67	53	K	K	K	35	46	56	47	46	48	52	44	43	48	58	34	89	61.0	
Sep 14	63	58	63	67	75	75	77	77	66	51	42	30	28	28	29	30	30	33	37	45	50	48	49	53	28	77	50.2	
Sep 15	58	54	56	62	65	67	69	65	60	52	46	40	31	30	22	19	20	23	25	26	37	34	35	39	19	69	43.1	
Sep 16	36	41	44	50	56	59	62	64	59	52	46	38	36	35	28	26	31	37	43	55	60	57	55	59	26	64	47.0	
Sep 17	60	63	62	81	89	96	98	95	90	74	61	46	37	32	28	27	30	36	43	56	56	61	59	59	27	98	60.0	
Sep 18	62	66	54	63	72	69	64	64	63	57	51	44	41	38	37	36	37	37	43	51	58	62	66	71	36	72	54.4	
Sep 19	74	77	81	85	86	86	86	83	76	62	52	43	38	36	38	38	39	46	55	60	66	71	80	83	36	86	64.2	
Sep 20	85	89	89	93	95	96	96	97	94	81	72	64	58	49	43	41	40	41	47	54	60	73	80	81	40	97	71.6	
Sep 21	81	82	86	89	90	92	93	90	83	69	56	48	40	37	36	38	37	38	40	44	45	48	54	57	36	93	61.4	
Sep 22	63	67	66	65	64	67	68	64	56	49	42	38	34	31	30	31	26	29	36	40	41	50	56	62	26	68	49.0	
Sep 23	65	71	73	76	81	82	86	83	76	68	60	47	43	36	31	28	36	46	63	79	94	97	99	100	28	100	67.5	
Sep 24	100	100	100	100	100	100	100	100	99	96	91	76	66	46	45	45	42	44	48	61	73	82	87	86	89	42	100	78.2
Sep 25	93	97	93	79	78	89	89	80	68	57	52	45	39	37	36	39	41	43	46	47	51	51	49	53	36	97	60.5	
Sep 26	55	55	61	70	77	80	82	78	77	68	57	52	51	43	35	33	36	37	46	56	60	62	71	64	33	82	58.6	
Sep 27	64	67	69	71	70	73	76	78	84	86	85	78	71	63	59	52	65	73	79	88	92	91	86	92	52	92	75.5	
Sep 28	98	97	98	99	100	99	100	100	97	93	85	80	80	79	78	85	87	90	93	95	96	96	96	87	78	100	92.0	
Sep 29	82	85	92	98	100	100	100	100	99	98	97	97	94	93	87	85	84	89	93	98	99	98	97	95	82	100	94.2	
Sep 30	94	91	96	96	93	90	94	96	93	84	71	60	54	53	46	44	42	49	62	66	70	70	69	71	42	96	73.1	
Diurnal Maximum	100	100	100	100	100	100	100	100	99	98	97	97	94	93	87	96	98	99	98	99	99	98	100	100				
Diurnal Average	75.8	77.6	78.8	80.5	82.9	84.9	85.8	83.9	78.6	70.1	61.4	52.6	46.9	43.4	41.0	41.1	42.1	45.1	51.4	59.3	64.7	67.6	70.6	73.0				

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

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



**Peace River Area Monitoring Program**  
**Reno-B Station - September 2023**  
**Summary of Hourly Averages**  
**BAROMETRIC PRESSURE (BP) in millibar**

Maximum Hourly Value:	952	mb	on Sep 9 at hr 6	Hours in Service:	720
Maximum Daily Value:	951	mb	on Sep 9	Hours of Data:	717
Minimum Hourly Value:	926	mb	on Sep 1 at hr 16	Hours of Missing Data:	3
Minimum Daily Value:	930	mb	on Sep 17	Hours of Calibration:	0
Monthly Average:	938	mb		Operational Uptime:	99.6

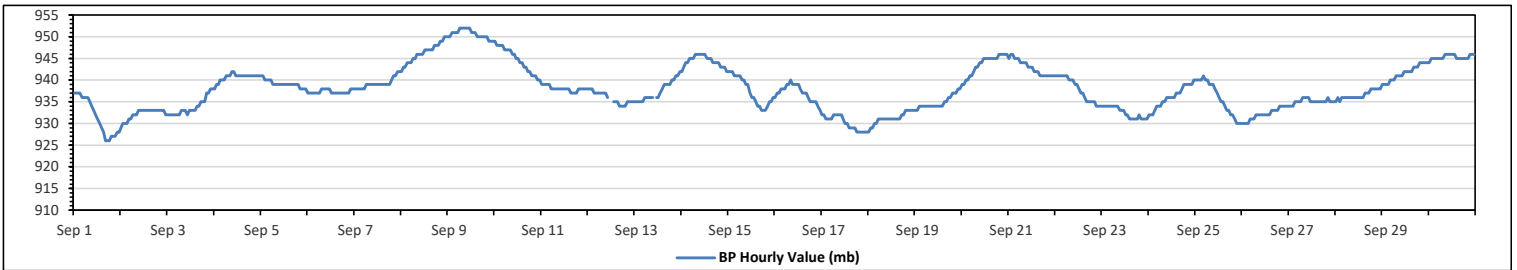
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	937	937	937	937	936	936	936	936	935	934	933	932	931	930	929	928	926	926	926	927	927	927	928	928	926	937	932	
Sep 2	929	930	930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

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

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





**Peace River Area Monitoring Program**  
**Reno-B Station - September 2023**  
**Summary of Hourly Averages**  
**AMBIENT TEMPERATURE (AT) in Degree Celsius**

Maximum Hourly Value:	26.0 °C	on Sep 15 at hr 15	Hours in Service:	720
Maximum Daily Value:	17.9 °C	on Sep 11	Hours of Data:	717
Minimum Hourly Value:	2.6 °C	on Sep 4 at hr 6	Hours of Missing Data:	3
Minimum Daily Value:	6.0 °C	on Sep 29	Hours of Calibration:	0
Monthly Average:	12.3 °C		Operational Uptime:	99.6

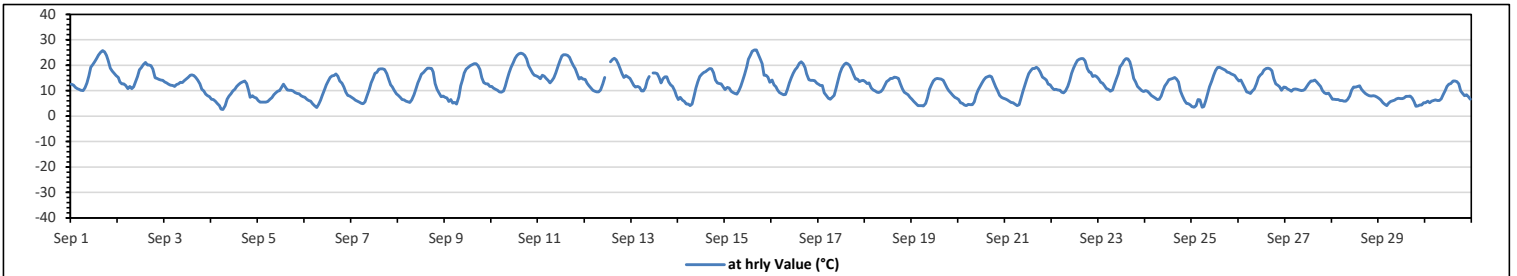
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	12.5	12.2	11.3	10.8	10.5	10.2	10	11.1	13.1	15.8	19.2	20.2	21.4	22.6	24	25.1	25.7	25.3	23.8	21.9	18.8	17.7	16.8	16	10.0	25.7	17.3
Sep 2	15.1	13.5	12.6	12.6	12.1	10.8	11.6	10.8	11.5	13.6	15.5	18.2	19	20.3	21.1	20.1	20.1	19.8	18.5	15	14.8	14.4	14.1	14	10.8	21.1	15.4
Sep 3	13.5	13.1	12.5	12.2	12	11.6	12.4	12.7	13.3	13.2	13.9	14.5	15.1	16.1	16.2	15.9	15.1	14.2	12.7	10.6	9.9	8.6	8	7.6	7.6	16.2	12.7
Sep 4	6.6	6.5	5.8	4.9	4.1	2.7	2.6	4.2	6.6	7.9	8.8	9.9	10.5	11.7	12.4	13.1	13.5	13.7	12.8	10.1	7.3	8.1	7.4	7.1	2.6	13.7	8.3
Sep 5	6.1	5.5	5.5	5.5	5.5	5.7	6.6	7.2	8.3	9.2	9.7	10	11.3	12.5	11.4	10.3	10.2	10.1	9.9	9.3	8.9	8.8	8	7.6	5.5	12.5	8.5
Sep 6	7.3	6.6	6.1	5.8	4.9	4.1	3.4	4.6	6.3	8	10.3	12.3	13.8	15.1	15.8	15.9	16.5	15.7	13.8	12.9	11.4	9.4	8.2	7.9	3.4	16.5	9.8
Sep 7	7.4	6.9	6.2	5.9	5.5	5	4.9	5.6	7.9	10.4	13	14.8	16.8	17.2	18.5	18.6	18.6	18.3	16.6	14.4	12.3	11.5	10.2	8.7	4.9	18.6	11.5
Sep 8	8.2	7.3	6.5	6.4	5.9	5.6	5.4	6.4	8.4	10.7	13	14.9	16.4	17.2	18.1	18.8	18.9	18.7	17.4	12.8	10.6	9.1	7.7	7.9	5.4	18.9	11.3
Sep 9	7.3	7.1	5.7	6.5	5.1	5.4	4.7	7.5	11.9	14.4	17	18.5	19.2	19.8	20.3	20.5	20.6	19.9	18.3	15	13.2	12.6	12.7	11.7	4.7	20.6	13.1
Sep 10	11.6	11	10.5	10.1	9.5	9.4	9.9	11.7	14.4	16.9	19	21	22.7	23.9	24.4	24.7	24.4	23.9	22.5	19.9	18.2	16.8	16.1	15.8	9.4	24.7	17.0
Sep 11	15.4	14.7	16.1	15.7	14.9	14	13.1	13.9	15	17	19.6	21.7	23.6	24.1	24.2	23.8	23.1	21.4	19.9	18.6	16.5	14.5	15.1	14.6	13.1	24.2	17.9
Sep 12	14.4	12.9	11.9	11	10.1	9.7	9.5	9.5	10.3	12.7	15.1	K	K	21.4	22.2	22.7	22.1	20.6	18.7	16.6	15.1	15.9	15.4	14.8	9.5	22.7	15.1
Sep 13	13.5	12.1	11.4	11.7	11.3	9.9	9.9	11.1	14	15.5	K	17	16.9	16.6	15.2	13	14.7	15.4	15.4	13.4	12.3	11.7	9.9	8.1	8.1	17.0	13.0
Sep 14	6.5	7.4	6.3	5.7	4.7	4.7	4.2	4.7	7.8	11	13.6	15.5	16.5	17.2	17.5	18.1	18.7	18.6	17.1	14.2	13	12.8	12.6	11.5	4.2	18.7	11.7
Sep 15	10.4	11.3	11	9.7	9.3	8.9	8.6	9.9	11.6	13.9	16.3	19.4	22.4	23.8	25.5	26	26	24.3	22.5	20.6	16.1	16.1	15.3	13.3	8.6	26.0	16.3
Sep 16	14.1	12.3	11.5	10.3	9.3	8.8	8.3	8.5	10.6	13	15	16.8	18.2	19	20.7	21.4	20.6	19	16.5	14.3	14	14	13.9	12.9	8.3	21.4	14.3
Sep 17	12.5	12.1	12	9.2	8	7	6.7	7.3	8.2	10.9	13.9	16.8	18.9	20.3	20.8	20.6	20	18.4	16.2	14.5	14.6	13.6	13.9	14	6.7	20.8	13.8
Sep 18	13.6	12.8	13	11	10.3	9.8	9.4	9.3	9.6	10.6	12	13.6	14.1	14.8	14.8	15.3	15.1	14.9	12.7	10.8	9.4	8.9	8.3	7.4	7.4	15.3	11.7
Sep 19	6.6	5.7	4.9	4.2	4.1	4.1	4	5	7.3	10.5	12.3	13.7	14.6	14.9	14.7	14.6	14	12.5	11	10	9	8.2	7.4	7	4.0	14.9	9.2
Sep 20	6.5	5.3	5	4.3	4.2	4.6	4.4	4.4	5.6	8.3	10.3	11.7	13.1	14.3	15.1	15.6	15.8	15.4	13.6	11.4	9.9	8.2	7.4	7	4.2	15.8	9.2
Sep 21	6.8	6.4	5.9	5.4	5.2	4.6	4.1	4.5	6.6	9.7	12.2	14.6	16.7	17.8	18.7	18.7	19.1	18.6	17.3	15.3	14.9	14.1	12.5	12.3	4.1	19.1	11.8
Sep 22	11.1	10.4	10.6	10.3	10.2	9.4	9.2	9.9	11.6	13.9	16.8	18.9	20.4	21.8	22.3	22.6	22.6	21.7	18.7	17.3	17.2	15.5	16	15.4	9.2	22.6	15.6
Sep 23	14.6	13.3	12.9	11.9	10.8	10.6	9.7	10.3	12.5	14.7	16.6	19.3	20.4	21.8	22.6	22.5	21.4	18.5	14.9	13.5	11.7	10.8	10	9.6	9.6	22.6	14.8
Sep 24	10	9.7	9	8.2	7.7	7.1	6.5	6.7	7.9	9.7	11.8	13.1	14.3	14.5	14.9	15.2	14.6	13.5	9.8	8	6.1	5	4.9	4.3	4.3	15.2	9.7
Sep 25	3.7	3.5	4.2	6.5	6.4	3.5	3.7	6	8.7	11.5	13.8	16.1	17.9	19	19.2	18.8	18.4	18.1	17.4	17.1	16.5	16.3	16	14.9	3.5	19.2	12.4
Sep 26	13.8	14.1	12.7	11.1	9.5	9.3	8.9	9.9	10.7	12.8	15.2	16.2	16.7	18.1	18.7	18.8	18.6	17.8	14.7	12.6	12.2	11.5	10.2	11.4	8.9	18.8	13.6
Sep 27	11.2	10.7	10.3	9.7	10.6	10.7	10.5	10.3	10	10.1	10.6	11.7	12.8	13.7	13.7	14.2	13.4	12.5	11.6	10	9.1	8.7	9	7.9	7.9	14.2	11.0
Sep 28	6.7	6.6	6.5	6.5	6.1	6.1	5.9	5.8	6.6	7.9	10.2	11.4	11.4	11.6	11.9	10.6	9.6	8.9	8.3	8	7.9	8.1	7.9	7.5	5.8	11.9	8.3
Sep 29	7	6.4	5.3	4.6	4.2	5.1	5.7	6	6.3	6.8	7	6.9	6.9	7.1	7.8	7.8	7.9	7.1	5.7	3.9	4	4.3	4.3	5.2	3.9	7.9	6.0
Sep 30	5.2	5.8	5.2	5.9	6.1	6.4	6.1	6.1	6.8	8.4	10.2	11.6	12.5	12.8	13.8	13.7	13.6	12.6	9.9	8.9	8.1	8.3	7.7	6.7	5.2	13.8	8.9
Diurnal Maximum	15.4	14.7	16.1	15.7	14.9	14.0	13.1	13.9	15.0	17.0	19.6	21.7	23.6	24.1	25.5	26.0	26.0	25.3	23.8	21.9	18.8	17.7	16.8	16.0			
Diurnal Average	10.0	9.4	8.9	8.5	7.9	7.5	7.3	8.0	9.6	11.6	13.5	15.2	16.4	17.4	17.9	17.9	17.8	17.0	15.3	13.4	12.1	11.5	10.9	10.3			

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

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



**Peace River Area Monitoring Program**  
**Reno-B Station - September 2023**  
**Summary of Hourly Averages**  
**STATION TEMPERATURE (ST) in Degree Celsius**

Maximum Hourly Value:	24.3 °C	on Sep 12 at hr 3	Hours in Service:	720
Maximum Daily Value:	23.7 °C	on Sep 27	Hours of Data:	719
Minimum Hourly Value:	21.2 °C	on Sep 6 at hr 16	Hours of Missing Data:	1
Minimum Daily Value:	22.6 °C	on Sep 5	Hours of Calibration:	0
Monthly Average:	23.1 °C		Operational Uptime:	99.9

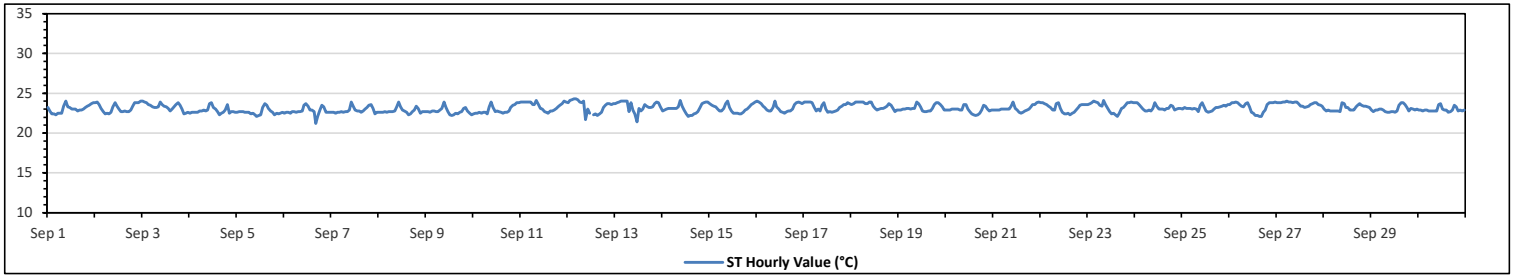
  

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Sep 1	23.2	22.8	22.4	22.4	22.3	22.5	22.5	22.5	23.4	24.0	23.3	23.2	23.0	23.0	23.0	22.8	22.9	22.9	23.0	23.2	23.4	23.5	23.7	23.8	22.3	24.0	23.0
Sep 2	23.8	23.9	23.6	23.1	22.7	22.4	22.5	22.4	22.6	23.3	23.8	23.4	23.0	22.7	22.7	22.8	22.7	22.7	22.9	23.4	23.8	23.8	23.8	24.0	22.4	24.0	23.2
Sep 3	24.0	23.9	23.8	23.6	23.5	23.3	23.2	23.2	23.3	23.9	23.6	23.4	23.3	23.1	22.8	23.0	23.3	23.6	23.8	23.5	23.0	22.4	22.5	22.6	22.4	24.0	23.3
Sep 4	22.5	22.6	22.6	22.6	22.6	22.8	22.8	22.9	22.8	22.9	23.7	23.8	23.2	23.0	22.7	22.3	22.5	22.6	22.9	23.6	22.5	22.7	22.7	22.6	22.3	23.8	22.8
Sep 5	22.6	22.7	22.7	22.7	22.6	22.6	22.6	22.4	22.5	22.3	22.1	22.2	22.3	23.2	23.7	23.5	23.1	22.8	22.6	22.3	22.5	22.4	22.5	22.6	22.1	23.7	22.6
Sep 6	22.5	22.6	22.6	22.5	22.7	22.7	22.6	22.7	22.7	22.8	23.5	23.7	23.4	22.9	22.9	22.7	21.2	22.1	22.9	23.5	23.3	22.6	22.6	22.6	21.2	23.7	22.8
Sep 7	22.6	22.6	22.5	22.6	22.6	22.7	22.6	22.7	22.7	22.9	23.9	23.4	22.9	22.8	22.8	22.6	22.8	23.0	23.2	23.5	23.6	23.1	22.4	22.6	22.4	23.9	22.9
Sep 8	22.6	22.6	22.6	22.7	22.6	22.7	22.7	22.7	22.8	23.3	23.9	23.3	22.9	22.8	22.6	22.3	22.4	22.7	22.9	23.4	23.1	22.5	22.7	22.7	22.3	23.9	22.8
Sep 9	22.7	22.7	22.6	22.8	22.8	22.7	22.7	22.9	23.1	23.9	23.2	22.7	22.3	22.2	22.3	22.5	22.4	22.6	22.7	23.1	23.2	22.8	22.5	22.3	22.2	23.9	22.7
Sep 10	22.4	22.5	22.5	22.6	22.5	22.6	22.6	22.4	23.3	23.9	23.2	22.7	22.8	22.7	22.6	22.5	22.6	22.6	22.8	23.2	23.5	23.6	23.8	23.8	22.4	23.9	22.9
Sep 11	23.9	23.9	23.9	23.9	23.9	23.9	23.6	23.6	24.1	23.6	23.1	23.0	22.7	22.6	22.5	22.8	22.8	22.9	23.1	23.3	23.5	23.7	24.0	23.9	22.5	24.1	23.4
Sep 12	23.8	24.1	24.2	24.3	24.3	24.2	23.9	23.8	24.0	21.7	23.0	22.5	K	22.3	22.4	22.2	22.4	22.6	23.2	23.5	23.7	23.7	23.6	23.7	21.7	24.3	23.4
Sep 13	23.7	23.8	23.9	24.0	24.0	24.0	22.7	23.8	22.9	22.4	21.4	23.1	22.8	23.0	23.6	23.4	23.2	23.2	23.3	23.7	23.9	23.8	23.3	21.4	24.0	23.4	
Sep 14	22.8	22.9	23.0	23.1	23.1	23.1	23.1	23.3	24.1	23.4	22.9	22.4	22.1	22.2	22.2	22.4	22.5	22.7	23.2	23.7	23.8	23.9	23.9	22.1	24.1	23.0	
Sep 15	23.7	23.5	23.4	23.3	23.0	22.8	22.8	23.1	23.7	24.0	23.2	22.8	22.5	22.5	22.5	22.4	22.4	22.6	22.9	23.0	23.3	23.6	23.7	23.9	22.4	24.0	23.1
Sep 16	24.0	23.9	23.7	23.4	23.2	22.9	22.8	22.8	23.2	24.0	23.3	23.0	22.7	22.6	22.5	22.7	22.8	22.8	23.0	23.6	23.8	23.9	23.8	23.7	22.5	24.0	23.3
Sep 17	23.9	23.9	23.9	23.9	23.8	23.3	23.3	23.0	22.8	23.5	23.8	23.0	22.6	22.7	22.6	22.7	22.8	22.9	23.2	23.4	23.6	23.6	23.8	23.7	22.6	23.9	23.3
Sep 18	23.6	23.7	23.9	23.9	23.9	23.9	23.9	23.7	23.7	23.9	23.9	23.4	23.1	22.9	23.0	23.1	23.1	23.2	23.4	23.7	23.5	23.1	22.7	22.9	22.7	23.9	23.5
Sep 19	22.9	22.9	23.0	23.0	23.1	23.1	23.1	23.1	23.9	23.9	23.7	23.3	22.8	22.7	22.7	22.8	22.8	23.1	23.6	23.8	23.8	23.6	23.3	22.9	22.7	23.9	23.2
Sep 20	22.9	22.9	22.9	23.0	23.0	23.0	23.0	22.9	22.9	23.6	23.6	23.0	22.7	22.4	22.3	22.2	22.3	22.5	22.9	23.5	23.4	23.0	22.8	22.9	22.2	23.6	22.9
Sep 21	22.9	22.9	22.9	22.9	23.0	23.0	23.0	23.0	23.0	23.4	23.9	23.1	22.9	22.6	22.5	22.6	22.8	22.9	23.0	23.3	23.6	23.6	23.8	23.9	22.5	23.9	23.1
Sep 22	23.8	23.8	23.7	23.6	23.4	23.2	22.9	22.9	23.7	23.8	23.1	22.6	22.4	22.4	22.5	22.3	22.5	22.6	22.9	23.2	23.5	23.6	23.6	23.6	22.3	23.8	23.2
Sep 23	23.6	23.7	23.8	24.0	23.9	23.8	23.5	23.4	24.1	23.6	23.1	22.7	22.4	22.5	22.3	22.1	22.5	23.1	23.2	23.5	23.8	23.8	23.9	23.8	22.1	24.1	23.3
Sep 24	23.8	23.8	23.6	23.3	23.0	22.8	22.8	22.9	22.8	23.1	23.8	23.4	23.0	23.0	23.0	22.9	23.1	23.1	23.5	23.4	22.9	23.0	23.1	23.1	22.8	23.8	23.2
Sep 25	23.0	23.2	23.1	23.1	23.1	23.0	23.1	23.0	22.7	23.5	23.8	23.3	22.8	22.6	22.7	22.8	23.0	23.2	23.2	23.3	23.4	23.5	23.4	23.6	22.6	23.8	23.1
Sep 26	23.6	23.8	23.8	23.9	23.8	23.6	23.4	23.3	23.7	23.8	23.3	22.6	22.5	22.2	22.2	22.1	22.1	22.6	22.9	23.6	23.8	23.8	23.8	23.9	22.1	23.9	23.3
Sep 27	23.8	23.8	23.8	23.9	23.9	24.0	23.9	23.9	23.8	23.9	23.9	23.7	23.4	23.4	23.2	23.3	23.4	23.6	23.7	23.8	23.8	23.6	23.5	23.4	23.2	24.0	23.7
Sep 28	23.0	22.8	22.9	22.8	22.8	22.8	22.8	22.7	23.8	23.7	23.2	23.2	22.9	22.9	22.9	23.3	23.5	23.7	23.5	23.4	23.4	23.3	23.2	22.7	23.8	23.1	
Sep 29	22.9	22.7	22.9	22.9	23.0	23.0	22.9	22.7	22.6	22.7	22.7	22.6	22.8	23.5	23.8	23.8	23.6	23.2	22.8	23.1	23.0	22.9	23.0	22.6	23.8	23.0	
Sep 30	22.9	22.9	22.8	22.9	22.8	22.8	22.8	22.8	22.8	23.6	23.7	23.0	22.9	22.9	22.6	22.7	22.9	23.5	23.3	22.8	22.9	22.8	22.9	22.6	23.7	23.0	
Diurnal Maximum	24.0	24.1	24.2	24.3	24.3	24.2	24.0	23.9	24.1	24.1	23.9	23.8	23.4	23.4	23.7	23.8	23.8	23.6	23.8	23.8	23.8	23.9	24.0	24.0			
Diurnal Average	23.2	23.3	23.2	23.2	23.2	23.1	23.0	23.0	23.2	23.4	23.4	23.0	22.8	22.7	22.7	22.7	22.7	22.9	23.1	23.4	23.4	23.3	23.3	23.3			

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

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



**Peace River Area Monitoring Program**

**Reno-B Station - September 2023**

**Summary of Hourly Averages**

**PRECIPITATION in mm**

Maximum Hourly Value:	0.6 mm on Sep 3 at hr 20	Hours in Service:	720
Maximum Daily Value:	0.8 mm on Sep 3	Hours of Data:	718
Minimum Hourly Value:	0.0 mm on Sep 1 at hr 0	Hours of Missing Data:	2
Minimum Daily Value:	0.0 mm on Sep 1	Hours of Calibration:	0
Monthly Total:	1.9 mm	Operational Uptime:	99.7

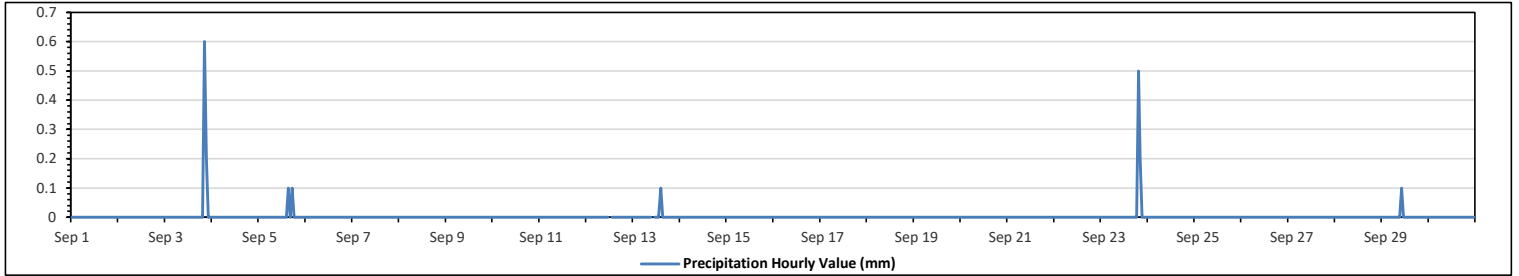
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 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	0.6	0.8
Sep 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
Sep 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0	0	0	0	0	0.0	0.0	0.2
Sep 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
Sep 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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	0.1	0.1
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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
Sep 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	0.7
Sep 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sep 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
Sep 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
Sep 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
Sep 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
Sep 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	0.1	0.1
Sep 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.5	0.6	0.2	0.0	0.0	0.0	0.0	0.0
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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



**Peace River Area Monitoring Program**

**Reno-B Station - September 2023**

**Summary of Hourly Averages**

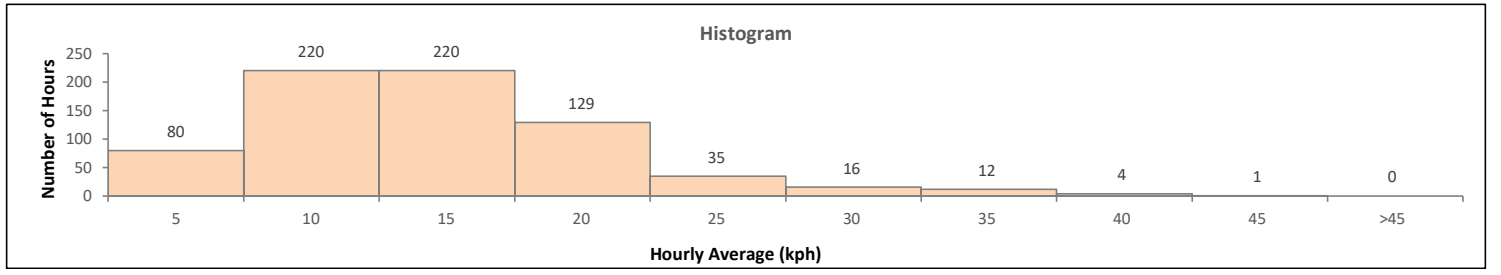
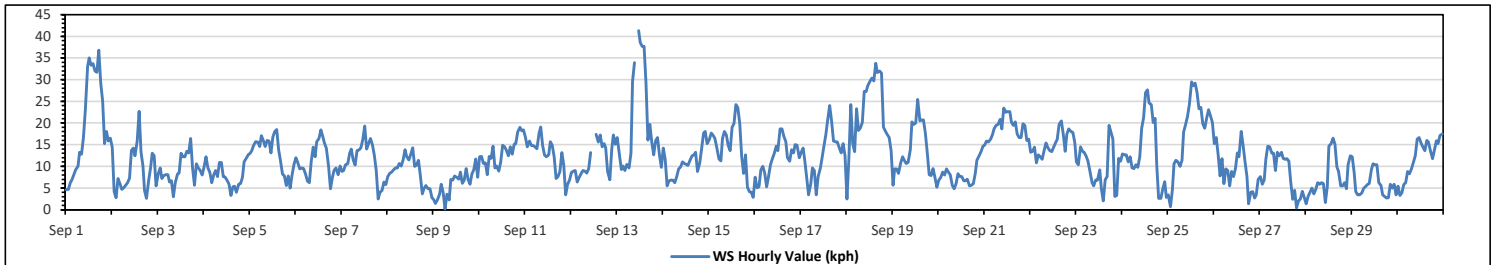
**VECTOR WIND SPEED (VWS) in km/hr**

Maximum Hourly Value:	41.3 kph	on Sep 13 at hr 11	Hours in Service:	720
Maximum Daily Value:	22.3 kph	on Sep 18	Hours of Data:	717
Minimum Hourly Value:	0.2 kph	on Sep 9 at hr 6	Hours of Missing Data:	3
Minimum Daily Value:	5.9 kph	on Sep 9	Hours of Calibration:	0
Monthly Average:	6.4 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
Sep 1	4.6	4.7	6.2	6.9	8.1	9.3	10.0	13.3	12.8	16.6	23.1	33.0	35.0	33.3	33.7	32.0	31.7	36.8	29.3	25.1	15.2	18.0	15.8	16.5	4.6	36.8	19.6
Sep 2	14.4	4.2	2.8	7.2	6.0	4.7	5.1	5.7	6.3	7.3	13.7	14.2	12.4	15.8	22.7	13.3	10.1	4.4	2.6	6.8	9.8	13.0	12.5	5.5	2.6	22.7	9.2
Sep 3	8.4	9.7	7.2	7.9	8.1	8.1	6.4	6.7	3.0	6.3	8.2	8.5	13.0	12.2	12.2	13.5	13.1	16.4	9.7	5.7	10.6	9.7	9.1	8.0	3.0	16.4	9.2
Sep 4	9.9	12.2	9.6	8.6	6.2	8.0	9.0	7.6	10.9	10.9	7.6	7.5	6.9	5.9	3.3	5.3	5.4	4.0	5.9	6.0	7.5	11.1	11.8	12.7	3.3	12.7	8.1
Sep 5	13.0	13.6	14.9	15.7	15.6	14.6	17.1	16.0	14.6	16.0	15.8	13.1	16.8	18.0	18.5	13.9	11.2	8.2	7.8	5.6	7.8	5.0	8.0	10.5	5.0	18.5	13.0
Sep 6	12.0	10.8	9.4	9.6	9.5	8.2	6.6	6.3	11.3	14.4	12.2	15.7	16.4	18.4	16.9	15.4	14.2	10.1	4.9	7.4	9.0	9.6	8.1	10.1	4.9	18.4	11.1
Sep 7	8.8	9.0	10.4	10.6	13.0	14.0	11.5	10.3	13.6	13.9	14.3	16.2	19.3	14.0	15.2	16.4	15.0	12.6	9.1	2.5	4.1	4.4	6.4	5.8	2.5	19.3	11.3
Sep 8	7.6	8.4	8.7	9.2	9.6	9.7	10.7	10.1	11.5	13.8	12.3	11.5	12.8	14.3	10.0	10.2	11.4	7.8	3.7	4.8	5.6	4.8	4.8	2.8	2.8	14.3	9.0
Sep 9	2.4	1.5	2.3	3.6	5.9	4.0	0.2	3.6	2.3	7.0	6.8	7.8	7.5	7.1	8.7	6.1	6.8	9.5	7.0	5.9	8.2	9.3	11.7	7.5	0.2	11.7	5.9
Sep 10	12.2	12.3	10.7	10.8	8.1	12.3	11.9	14.7	9.6	10.1	8.9	11.1	14.9	14.5	13.8	12.4	14.5	12.8	15.1	15.3	17.9	19.0	18.2	18.4	8.1	19.0	13.3
Sep 11	16.8	14.5	15.8	14.8	14.8	14.5	14.1	17.7	19.1	14.8	12.6	12.2	12.7	15.7	14.9	12.2	7.2	7.6	8.8	13.2	10.3	3.5	5.9	6.8	3.5	19.1	12.5
Sep 12	8.6	8.9	9.0	6.4	7.4	8.3	9.1	8.9	8.5	9.5	13.2	K	K	17.4	15.6	17.2	14.5	15.3	14.3	8.8	6.9	14.0	17.2	15.1	6.4	17.4	11.6
Sep 13	16.6	12.7	9.3	10.1	9.1	10.5	9.6	13.0	29.6	33.9	K	41.3	38.6	37.7	37.7	29.2	16.1	19.7	15.6	12.7	15.9	16.7	12.7	9.8	5.1	41.3	19.9
Sep 14	14.2	11.6	5.5	6.7	6.8	6.8	6.2	7.6	9.4	9.9	11.0	10.7	10.5	10.2	11.5	12.4	12.7	13.3	8.8	10.8	14.2	17.7	18.0	15.3	5.5	18.0	10.9
Sep 15	16.2	17.7	17.2	16.5	14.4	11.7	11.3	16.4	18.1	17.2	14.8	13.6	19.0	19.9	24.2	23.5	19.9	12.3	8.4	12.7	5.2	4.2	4.0	2.9	2.9	24.2	14.2
Sep 16	7.5	5.1	5.3	9.2	10.0	8.5	5.3	7.3	10.4	11.8	13.0	14.7	13.6	18.6	16.9	15.7	12.0	11.2	13.9	13.1	15.0	14.9	12.0	5.1	18.6	11.8	
Sep 17	13.3	14.2	11.5	7.5	3.4	6.0	9.6	9.1	3.4	7.7	9.6	11.9	14.7	17.3	20.9	24.0	20.4	15.8	15.7	15.6	14.3	13.1	15.2	12.5	3.4	24.0	12.8
Sep 18	2.5	11.8	24.2	15.2	13.4	23.3	18.3	18.9	20.1	27.3	27.3	28.6	29.6	30.4	29.7	33.8	31.6	32.0	31.5	19.1	18.3	17.5	16.6	13.6	2.5	33.8	22.3
Sep 19	5.7	9.4	9.4	8.4	10.8	12.2	11.4	10.7	10.9	13.9	20.3	19.7	20.0	25.4	20.5	20.7	20.7	17.7	13.1	8.1	7.9	9.5	7.4	5.2	5.2	25.4	13.3
Sep 20	6.8	7.4	8.7	8.0	9.4	8.7	8.0	5.7	4.8	6.0	8.3	7.6	7.7	6.7	6.7	7.1	5.5	5.7	6.0	8.4	11.4	12.3	13.4	14.7	4.8	14.7	8.1
Sep 21	14.9	15.8	15.6	16.3	17.4	18.7	19.5	19.7	20.8	18.6	23.4	22.5	22.6	22.6	20.2	19.4	20.3	17.5	16.6	16.7	19.8	19.4	16.0	16.3	14.9	23.4	18.8
Sep 22	13.3	13.5	14.4	10.8	12.7	12.2	11.6	13.6	15.4	14.3	13.6	13.4	14.4	15.5	16.2	19.7	20.5	17.4	13.5	17.4	18.6	18.1	17.8	15.5	10.8	20.5	15.1
Sep 23	11.0	10.4	14.5	13.5	13.3	12.5	11.3	8.6	6.2	5.5	6.8	6.8	9.2	4.9	2.1	6.9	7.7	19.4	17.9	16.3	3.1	3.3	11.9	11.2	2.1	19.4	9.8
Sep 24	12.9	12.7	12.7	11.1	12.2	9.6	9.5	10.4	9.8	12.2	18.8	21.2	27.0	27.6	24.6	24.3	20.1	21.1	10.5	2.6	2.6	4.9	6.5	2.9	2.6	27.6	13.7
Sep 25	3.5	0.7	4.6	10.6	11.4	11.0	10.0	11.4	17.9	19.6	21.4	24.2	29.5	28.6	29.2	27.1	23.3	23.6	19.8	18.8	21.1	23.1	21.7	20.1	0.7	29.5	18.0
Sep 26	15.3	16.6	12.7	7.8	11.8	6.0	9.4	9.0	5.5	8.8	7.7	9.5	13.1	12.2	18.1	14.8	11.0	7.7	1.4	4.0	4.2	2.7	3.4	7.0	1.4	18.1	9.2
Sep 27	7.7	5.9	6.9	11.6	14.7	14.5	13.0	13.0	9.1	13.3	12.4	13.3	11.9	11.6	11.8	11.2	6.2	2.4	4.5	0.4	2.0	2.5	4.3	2.9	0.4	14.7	8.6
Sep 28	1.4	3.1	4.0	5.0	3.7	4.7	6.3	5.9	6.2	6.0	1.7	5.3	14.7	15.2	16.5	15.1	9.9	8.9	5.5	5.5	6.3	4.8	10.4	12.4	1.4	16.5	7.4
Sep 29	12.2	8.6	4.2	3.4	3.4	3.9	5.0	5.3	5.8	6.0	9.3	10.6	10.4	10.4	6.3	5.6	3.4	3.1	2.7	2.8	5.9	5.0	5.9	3.5	2.7	12.2	5.9
Sep 30	5.4	3.3	3.9	5.8	6.3	8.8	8.3	9.4	10.9	12.4	16.3	16.7	15.4	14.4	13.6	16.0	15.6	13.4	11.8	13.9	15.9	15.3	17.1	17.5	3.3	17.5	12.0
Diurnal Maximum	16.8	17.7	24.2	16.5	17.4	23.3	19.5	19.7	29.6	33.9	27.3	41.3	38.6	37.7	37.7	33.8	31.7	36.8	31.5	25.1	21.1	23.1	21.7	20.1			
Diurnal Average	10.0	9.7	9.7	9.6	9.9	10.2	9.8	10.5	11.3	12.8	13.3	15.3	16.9	17.2	17.1	16.5	14.5	13.6	11.1	10.2	10.4	10.9	11.6	10.5			

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

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

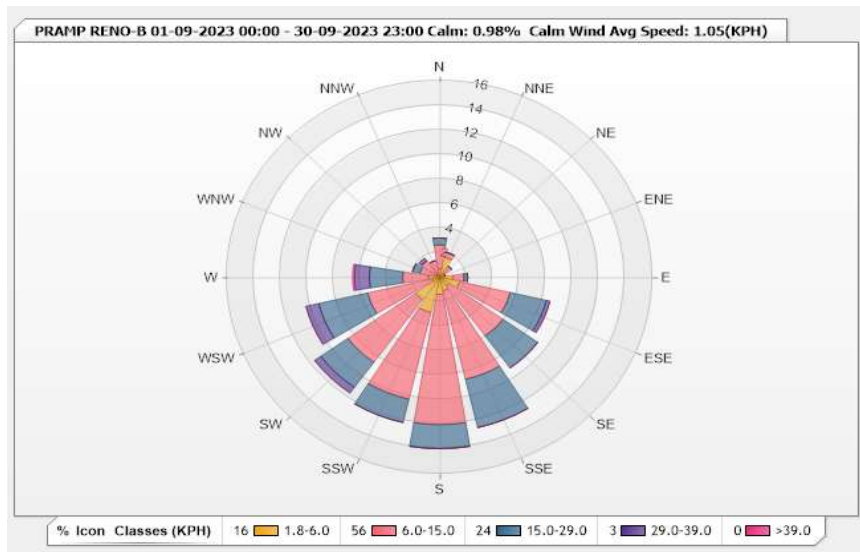


Station: PRAMP RENO-B Monitor: WDS [KPH] Monthly: 09-2023

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

Calm (WS<1.8kph): 0.98% Valid Data: 99.58%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.7	1.95	0.56	0	0	3.21
NNE	1.67	0.42	0	0	0	2.09
NE	0.42	0.7	0	0	0	1.12
ENE	0.14	0.28	0	0	0	0.42
E	0.98	0.84	0.28	0	0	2.1
ESE	1.53	3.91	2.79	0.28	0	8.51
SE	0.84	5.02	3.21	0	0	9.07
SSE	1.12	7.39	4.04	0	0	12.55
S	1.39	10.6	1.95	0	0	13.94
SSW	2.93	7.25	1.95	0	0	12.13
SW	2.23	6.28	2.51	0.56	0	11.58
WSW	0.56	5.02	3.77	0.98	0	10.33
W	0.84	1.95	2.51	1.12	0.14	6.56
WNW	0.28	1.26	0.56	0	0	2.1
NW	0.28	1.39	0	0.28	0	1.95
NNW	0.14	1.26	0	0	0	1.4
Summary	16.05	55.52	24.13	3.22	0.14	99.06



Peace River Area Monitoring Program

Reno-B Station - September 2023

Summary of Hourly Averages

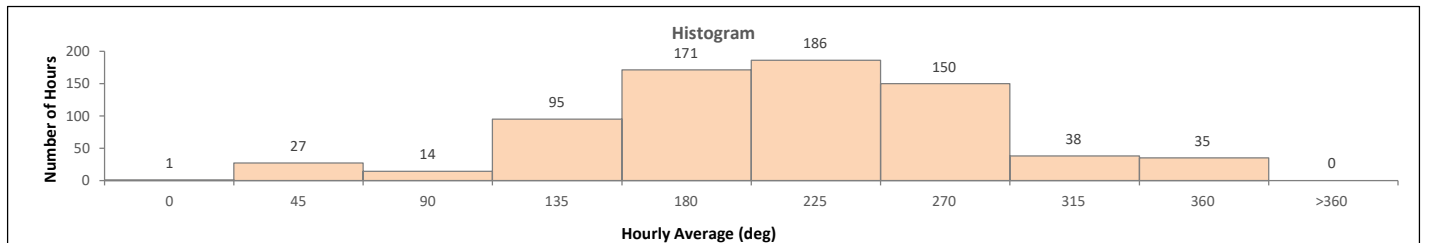
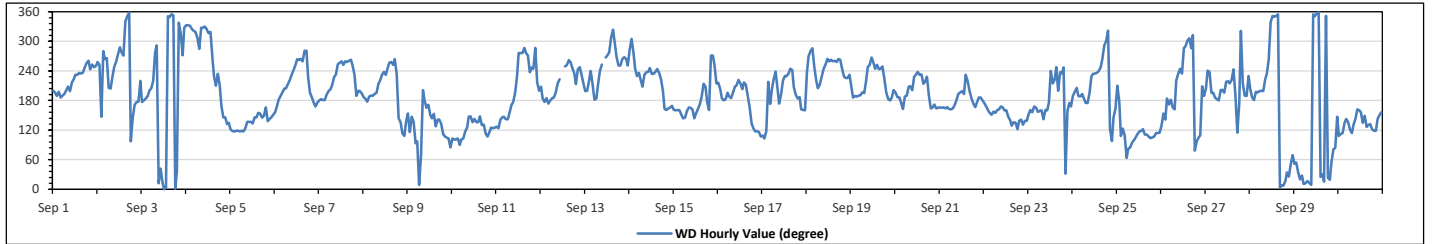
WIND DIRECTION (VWD) in sector

Monthly Average:	197 (SSW) degree	Hours in Service:	720
		Hours of Data:	717
		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	
Sep 1	SSW	SSW	S	SSW	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	231	SW	
Sep 2	WSW	WSW	SE	W	W	W	SSW	SSW	SSW	SSW	WSW	WSW	W	WNW	W	W	NNW	N	N	E	SE	S	S	S	SW	254	WSW
Sep 3	S	S	S	S	SSW	SSW	SW	W	WNW	NNE	NE	NNE	N	N	N	NNW	N	N	N	NE	NNW	NW	W	NNW	336	NNW	
Sep 4	NNW	NNW	NNW	NW	NW	NW	NW	WNW	NNW	NNW	NNW	NW	NW	NW	W	SW	SSW	SSW	SSE	SE	SE	SE	SE	SE	SE	305	WNW
Sep 5	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	SE	SSE	SSE	SE	SE	SE	SE	SE	133	SE
Sep 6	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	W	W	WSW	W	W	WSW	SSW	S	S	SSE	S	225	SW
Sep 7	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	SW	S	SSW	SSW	229	SW
Sep 8	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	213	SSW
Sep 9	SSE	ESE	SE	SE	E	E	N	ENE	SSW	S	SSE	S	SSE	SE	SSE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	E	130	SE
Sep 10	ESE	E	E	ESE	E	E	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	SE	122	ESE
Sep 11	SE	ESE	SE	SE	SE	SE	SE	SSE	SSE	S	SSW	SW	W	W	W	WNW	W	W	SW	WSW	WSW	WNW	SW	SSW	193	S	
Sep 12	SSW	S	S	S	S	S	S	S	SSW	SSW	SW	K	K	K	WSW	WSW	W	WSW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	224	SW
Sep 13	SSW	SSW	SW	WSW	SSW	S	S	SSW	WSW	WSW	K	W	W	W	NW	NW	WNW	W	WSW	WSW	W	W	W	WSW	260	WSW	
Sep 14	WNW	WNW	W	WSW	SW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	SW	SW	WSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSE	220	SW
Sep 15	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SSE	S	S	SSW	SSW	S	SSE	W	W	WSW	SSW	170	SSE	
Sep 16	SW	SSW	S	S	S	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	180	S
Sep 17	ESE	ESE	ESE	SW	S	SSW	SW	WSW	SSW	S	S	SW	SW	SW	SW	WSW	WSW	SSW	S	S	SSE	SSE	SSE	SSE	SSE	199	SSW
Sep 18	SW	W	W	WNW	WSW	SW	SSW	SSW	SW	WSW	WSW	W	WSW	W	WSW	W	WSW	W	W	WSW	SW	SW	SW	SW	SW	250	WSW
Sep 19	SSW	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSW	227	SW	
Sep 20	SSW	S	S	S	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	S	SSE	SSE	S	SSE	SSE	192	S
Sep 21	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SSW	S	SW	SSW	S	SSE	S	S	S	S	S	S	182	S
Sep 22	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	ESE	SE	SE	SE	SE	SE	148	SE
Sep 23	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SSE	SSE	S	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	NNE	SSE	S	SSE	186	S
Sep 24	S	SSW	SSW	S	S	S	S	S	S	S	SSW	SW	SW	SW	WSW	WSW	W	WNW	WNW	NW	ESE	E	ESE	ESE	224	SW	
Sep 25	SSW	S	ESE	ESE	ENE	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	109	ESE
Sep 26	SE	SSE	SE	S	S	S	SSE	SSE	SW	SW	WSW	SW	WNW	WNW	WNW	NW	WNW	NW	ENE	E	ESE	ESE	SSW	S	215	SSW	
Sep 27	SSW	WSW	SW	SSW	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	ESE	S	NW	SSW	S	S	SW	204	SSW		
Sep 28	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	W	NNW	N	N	N	N	N	N	N	NNE	NE	NNE	NE	ENE	360	N	
Sep 29	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	NNE	NNE	NNE	N	NNE	NE	E	E	SE	24	NNE		
Sep 30	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	SE	SE	SSE	SSE	SE	SE	SSE	SE	SE	SE	ESE	ESE	ESE	ESE	SSE	SSE	137	SE	

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

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



**Peace River Area Monitoring Program**

**Reno-B Station - September 2023**

**Summary of Hourly Averages**

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

<b>WIND SPEED</b>			
Maximum Hourly Value:	41.3 kph	on Sep 13 at hr 11	Hours in Service: 720
Maximum Daily Value:	22.3 kph	on Sep 18	Hours of Data: 717
Minimum Hourly Value:	0.2 kph	on Sep 9 at hr 6	Hours of Missing Data: 3
Minimum Daily Value:	5.9 kph	on Sep 9	Hours of Calibration: 0
Monthly Average:	6.4 kph		Operational Uptime: 99.6

<b>WIND DIRECTION</b>			
Monthly Average:	197 degree (SSW)		

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	4.6	4.7	6.2	6.9	8.1	9.3	10.0	13.3	12.8	16.6	23.1	33.0	35.0	33.3	33.7	32.0	31.7	36.8	29.3	25.1	15.2	18.0	15.8	16.5	4.6	36.8	19.6
Sep 2	14.4	4.2	2.8	7.2	6.0	4.7	5.1	5.7	6.3	7.3	13.7	14.2	12.4	15.8	22.7	13.3	10.1	4.4	2.6	6.8	9.8	13.0	12.5	5.5	2.6	22.7	9.2
Sep 3	8.4	9.7	7.2	7.9	8.1	8.1	6.4	6.7	3.0	6.3	8.2	8.5	13.0	12.2	12.2	13.5	13.1	16.4	9.7	5.7	10.6	9.7	9.1	8.0	3.0	16.4	9.2
Sep 4	9.9	12.2	9.6	8.6	6.2	8.0	9.0	7.6	10.9	10.9	7.6	7.5	6.9	5.9	3.3	5.3	5.4	4.0	5.9	6.0	7.5	11.1	11.8	12.7	3.3	12.7	8.1
Sep 5	13.0	13.6	14.9	15.7	15.6	14.6	17.1	16.0	14.6	16.0	15.8	13.1	16.8	18.0	18.5	13.9	11.2	8.2	7.8	5.6	7.8	5.0	8.0	10.5	5.0	18.5	13.0
Sep 6	12.0	10.8	9.4	9.6	9.5	8.2	6.6	6.3	11.3	14.4	12.2	15.7	16.4	18.4	16.9	15.4	14.2	10.1	4.9	7.4	9.0	9.6	8.1	10.1	4.9	18.4	11.1
Sep 7	8.8	9.0	10.4	10.6	13.0	14.0	11.5	10.3	13.6	13.9	14.3	16.2	19.3	14.0	15.2	16.4	15.0	12.6	9.1	2.5	4.1	4.4	6.4	5.8	2.5	19.3	11.3
Sep 8	7.6	8.4	8.7	9.2	9.6	9.7	10.7	10.1	11.5	13.8	12.3	11.5	12.8	14.3	10.0	10.2	11.4	7.8	3.7	4.8	5.6	4.8	4.8	2.8	2.8	14.3	9.0
Sep 9	2.4	1.5	2.3	3.6	5.9	4.0	0.2	3.6	2.3	7.0	6.8	7.8	7.5	7.1	8.7	6.1	6.8	9.5	7.0	5.9	8.2	9.3	11.7	7.5	0.2	11.7	5.9
Sep 10	12.2	12.3	10.7	10.8	8.1	12.3	11.9	14.7	9.6	10.1	8.9	11.1	14.9	14.5	13.8	12.4	14.5	12.8	15.1	15.3	17.9	19.0	18.2	18.4	8.1	19.0	13.3
Sep 11	16.8	14.5	15.8	14.8	14.8	14.5	14.1	17.7	19.1	14.8	12.6	12.2	12.7	15.7	14.9	12.2	7.2	7.6	8.8	13.2	10.3	3.5	5.9	6.8	3.5	19.1	12.5
Sep 12	8.6	8.9	9.0	6.4	7.4	8.3	9.1	8.9	8.5	9.5	13.2	K	K	17.4	15.6	17.2	14.5	15.3	14.3	8.8	6.9	14.0	17.2	15.1	6.4	17.4	11.6
Sep 13	16.6	12.7	9.3	10.1	9.1	10.5	9.6	13.0	29.6	33.9	K	41.3	38.6	37.7	37.7	29.2	16.1	19.7	15.6	12.7	15.9	16.7	12.7	9.8	9.1	41.3	19.9
Sep 14	14.2	11.6	5.5	6.7	6.8	6.8	6.2	7.6	9.4	9.9	11.0	10.7	10.5	10.2	11.5	12.4	12.7	13.3	8.8	10.8	14.2	17.7	18.0	15.3	5.5	18.0	10.9
Sep 15	16.2	17.7	17.2	16.5	14.4	11.7	11.3	16.4	18.1	17.2	14.8	13.6	19.0	19.9	24.2	23.5	19.9	12.3	8.4	12.7	5.2	4.2	4.0	2.9	2.9	24.2	14.2
Sep 16	7.5	5.1	5.3	9.2	10.0	8.5	5.3	7.3	10.4	11.8	13.0	14.7	13.6	18.6	16.9	15.7	12.0	11.2	13.9	13.1	15.0	14.9	12.0	11.2	5.1	18.6	11.8
Sep 17	13.3	14.2	11.5	7.5	3.4	6.0	9.6	9.1	3.4	7.7	9.6	11.9	14.7	17.3	20.9	24.0	20.4	15.8	15.7	15.6	14.3	13.1	15.2	12.5	3.4	24.0	12.8
Sep 18	2.5	11.8	24.2	15.2	13.4	23.3	18.3	18.9	20.1	27.3	28.3	28.6	29.6	30.4	29.7	33.8	31.6	32.0	31.5	19.1	18.3	17.5	16.6	13.6	2.5	33.8	22.3
Sep 19	5.7	9.4	9.4	8.4	10.8	12.2	11.4	10.7	10.9	13.9	20.3	19.7	20.0	25.4	20.5	20.7	20.7	17.7	13.1	8.1	7.9	9.5	7.4	5.2	5.2	25.4	13.3
Sep 20	6.8	7.4	8.7	8.0	9.4	8.7	8.0	5.7	4.8	6.0	8.3	7.6	7.7	6.7	6.7	7.1	5.5	5.7	6.0	8.4	11.4	12.3	13.4	14.7	4.8	14.7	8.1
Sep 21	14.9	15.8	15.6	16.3	17.4	18.7	19.5	19.7	20.8	18.6	23.4	22.5	22.6	22.6	20.2	19.4	20.3	17.5	16.6	16.7	19.8	19.4	16.0	16.3	14.9	23.4	18.8
Sep 22	13.3	13.5	14.4	10.8	12.7	12.2	11.6	13.6	15.4	14.3	13.6	13.4	14.4	15.5	16.2	19.7	20.5	17.4	13.5	17.4	18.6	18.1	17.8	15.5	10.8	20.5	15.1
Sep 23	11.0	10.4	14.5	13.5	13.3	12.5	11.3	8.6	6.2	5.5	6.8	6.8	9.2	4.9	2.1	6.9	7.7	19.4	17.9	16.3	3.1	3.3	11.9	11.2	2.1	19.4	9.8
Sep 24	12.9	12.7	12.7	11.1	12.2	9.6	9.5	10.4	9.8	12.2	18.8	21.2	27.0	27.6	24.6	24.3	20.1	21.1	10.5	2.6	2.6	4.9	6.5	2.9	2.6	27.6	13.7
Sep 25	3.5	0.7	4.6	10.6	11.4	11.0	10.0	11.4	17.9	19.6	21.4	24.2	29.5	28.6	29.2	27.1	23.3	23.6	19.8	18.8	21.1	23.1	21.7	20.1	0.7	29.5	18.0
Sep 26	15.3	16.6	12.7	7.8	11.8	6.0	9.4	9.0	5.5	8.8	7.7	9.5	13.1	12.2	18.1	14.8	11.0	7.7	1.4	4.0	4.2	2.7	3.4	7.0	1.4	18.1	9.2
Sep 27	7.7	5.9	6.9	11.6	14.7	14.5	13.0	13.0	9.1	13.3	12.4	13.3	11.9	11.6	11.8	11.2	6.2	2.4	4.5	0.4	2.0	2.5	4.3	2.9	0.4	14.7	8.6
Sep 28	1.4	3.1	4.0	5.0	3.7	4.7	6.3	5.9	6.2	6.0	1.7	5.3	14.7	15.2	16.5	15.1	9.9	8.9	5.5	5.5	6.3	4.8	10.4	12.4	1.4	16.5	7.4
Sep 29	12.2	8.6	4.2	3.4	3.4	3.9	5.0	5.3	5.8	6.0	9.3	10.6	10.4	10.4	6.3	5.6	3.4	3.1	2.7	2.8	5.9	5.0	5.9	3.5	2.7	12.2	5.9
Sep 30	5.4	3.3	3.9	5.8	6.3	8.8	8.3	9.4	10.9	12.4	16.3	16.7	15.4	14.4	13.6	16.0	15.6	13.4	11.8	13.9	15.9	15.3	17.1	17.5	3.3	17.5	12.0

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

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

PRC STATION



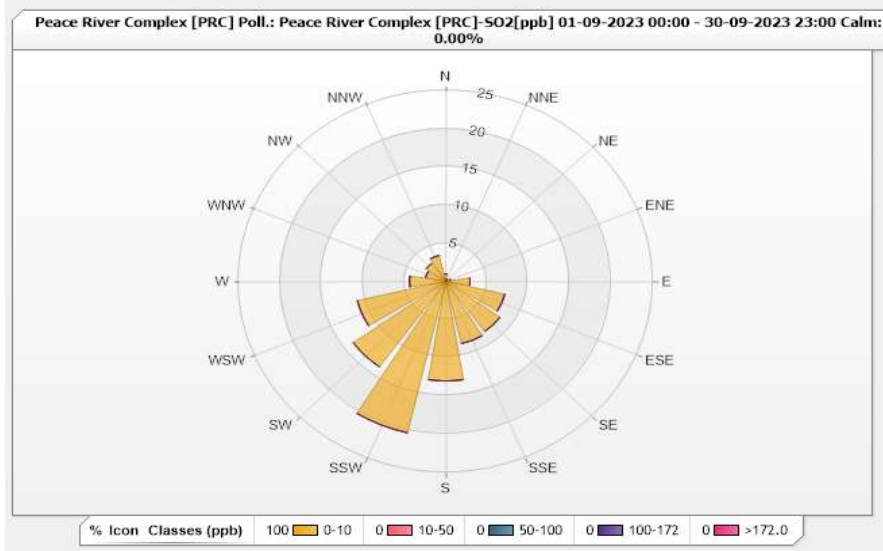


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 09-2023

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

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

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	1.02	0	0	0	0	1.02
NNE	0.29	0	0	0	0	0.29
NE	0.15	0	0	0	0	0.15
ENE	0.58	0	0	0	0	0.58
E	2.92	0	0	0	0	2.92
ESE	7.31	0	0	0	0	7.31
SE	8.04	0	0	0	0	8.04
SSE	8.33	0	0	0	0	8.33
S	13.01	0	0	0	0	13.01
SSW	20.32	0	0	0	0	20.32
SW	13.74	0	0	0	0	13.74
WSW	10.96	0	0	0	0	10.96
W	4.39	0	0	0	0	4.39
WNW	2.49	0	0	0	0	2.49
NW	2.92	0	0	0	0	2.92
NNW	3.51	0	0	0	0	3.51
Summary	100	0	0	0	0	100

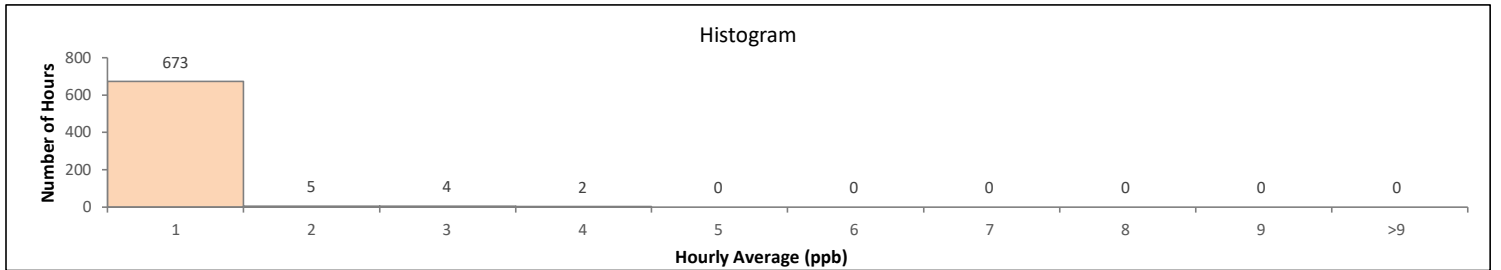
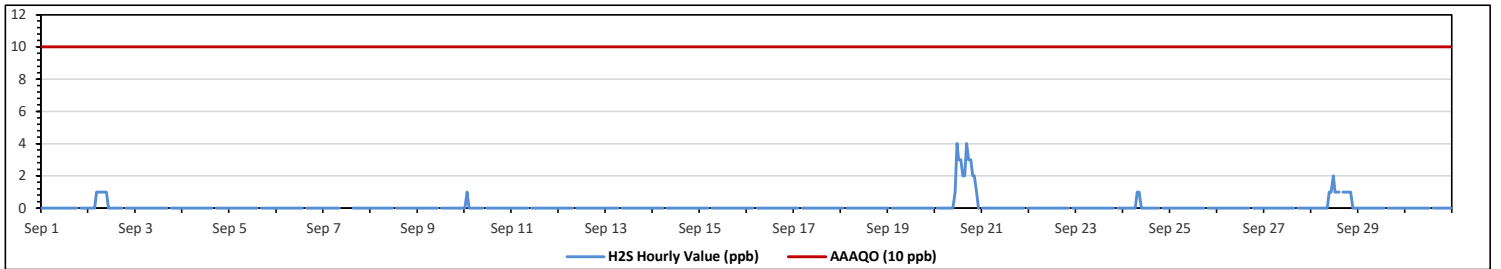


**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**HYDROGEN SULPHIDE (H<sub>2</sub>S) in ppb**

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:	4	ppb	on Sep 20 at hr 11											Hours in Service:	720												
Maximum Daily Value:	1.0	ppb	on Sep 20											Hours of Data:	684												
Minimum Hourly Value:	0	ppb	on Sep 1 at hr 0											Hours of Missing Data:	0												
Minimum Daily Value:	0.0	ppb	on Sep 1											Hours of Calibration:	36												
Monthly Average:	0.1	ppb												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
Sep 1	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
Sep 2	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.0
Sep 3	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	
Sep 4	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	
Sep 5	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	
Sep 6	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	
Sep 7	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0.0	
Sep 8	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	
Sep 9	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Sep 10	0	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	
Sep 11	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	
Sep 12	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	
Sep 13	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	
Sep 14	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Sep 15	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	
Sep 16	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	
Sep 17	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	
Sep 18	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	
Sep 19	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	
Sep 20	S	0	0	0	0	0	0	0	0	0	1	4	3	3	2	2	4	3	3	2	2	1	0	S	0	4	1.0
Sep 21	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	
Sep 22	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	
Sep 23	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	
Sep 24	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.0	
Sep 25	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	
Sep 26	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	
Sep 27	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	
Sep 28	0	0	0	0	0	0	0	0	0	1	1	2	1	1	1	S	1	1	1	1	1	0	0	0	2	1.0	
Sep 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0	
Sep 30	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0	
Diurnal Maximum	0	1	0	0	1	1	1	1	1	1	1	4	3	3	2	2	4	3	3	2	2	1	0	0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0				

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

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

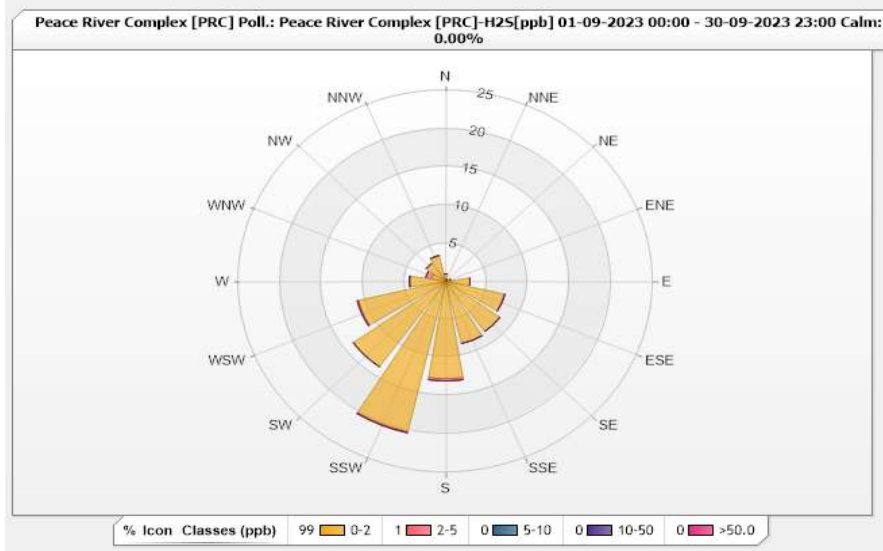


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	1.02	0	0	0	0	1.02
NNE	0.29	0	0	0	0	0.29
NE	0.15	0	0	0	0	0.15
ENE	0.58	0	0	0	0	0.58
E	2.92	0	0	0	0	2.92
ESE	7.31	0	0	0	0	7.31
SE	8.04	0	0	0	0	8.04
SSE	8.33	0	0	0	0	8.33
S	12.72	0.29	0	0	0	13.01
SSW	20.18	0.15	0	0	0	20.33
SW	13.74	0	0	0	0	13.74
WSW	10.82	0.15	0	0	0	10.97
W	4.39	0	0	0	0	4.39
WNW	1.75	0.73	0	0	0	2.48
NW	2.92	0	0	0	0	2.92
NNW	3.51	0	0	0	0	3.51
Summary	98.67	1.32	0	0	0	100



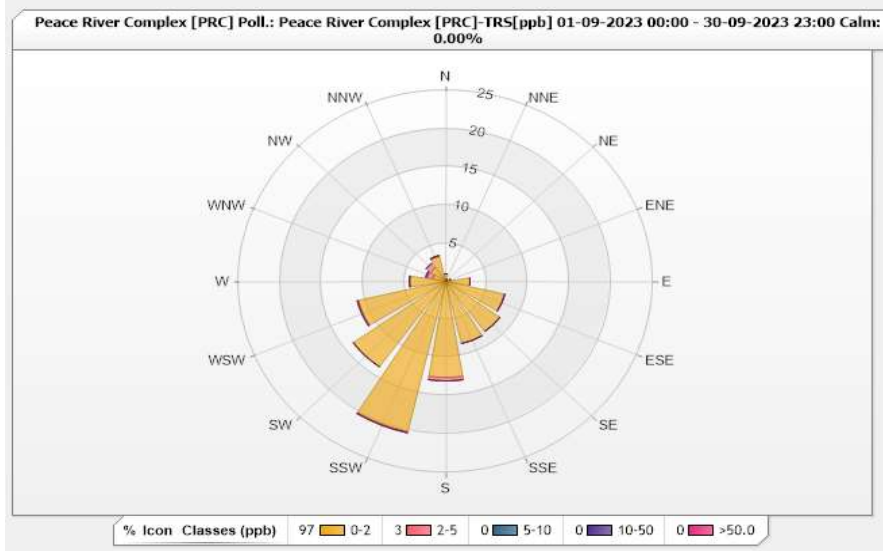


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	1.02	0	0	0	0	1.02
NNE	0.15	0.15	0	0	0	0.3
NE	0.15	0	0	0	0	0.15
ENE	0.58	0	0	0	0	0.58
E	2.92	0	0	0	0	2.92
ESE	7.31	0	0	0	0	7.31
SE	8.04	0	0	0	0	8.04
SSE	8.33	0	0	0	0	8.33
S	12.57	0.44	0	0	0	13.01
SSW	20.18	0.15	0	0	0	20.33
SW	13.74	0	0	0	0	13.74
WSW	10.82	0.15	0	0	0	10.97
W	4.39	0	0	0	0	4.39
WNW	1.61	0.73	0.15	0	0	2.49
NW	2.19	0.73	0	0	0	2.92
NNW	3.36	0.15	0	0	0	3.51
Summary	97.36	2.5	0.15	0	0	100



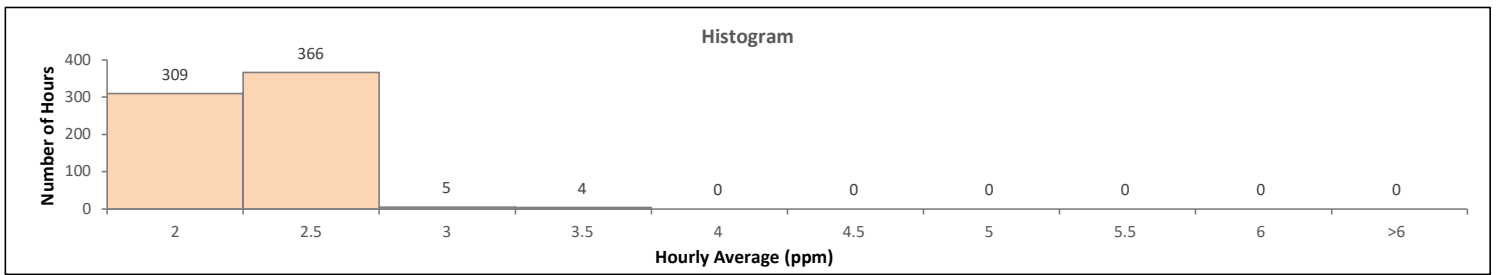
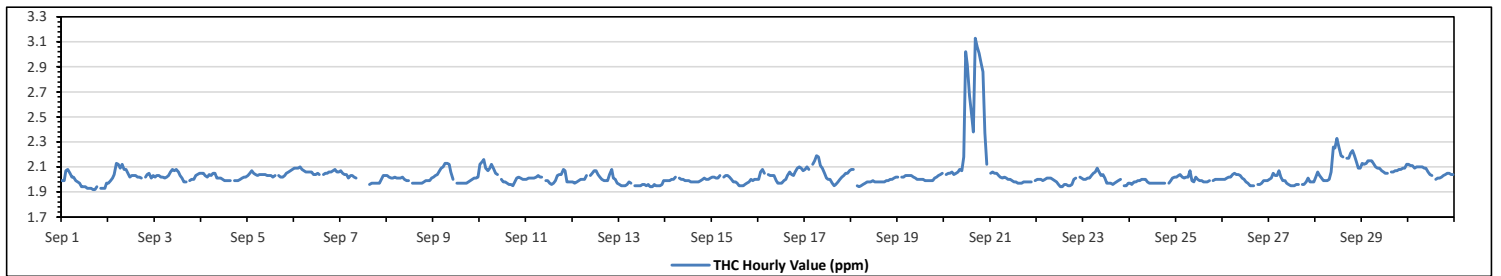
**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL HYDROCARBONS (THC) in ppm**

Maximum Hourly Value:	3.13 ppm	on Sep 20 at hr 16	Hours in Service:	720
Maximum Daily Value:	2.44 ppm	on Sep 20	Hours of Data:	684
Minimum Hourly Value:	1.92 ppm	on Sep 1 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	1.96 ppm	on Sep 13	Hours of Calibration:	36
Monthly Average:	2.03 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	
Sep 1	1.99	1.99	2.07	2.08	2.05	2.02	2.02	1.99	1.98	1.97	1.94	1.94	1.93	1.93	1.93	1.92	1.92	1.94	S	1.93	1.93	1.93	1.97	1.92	2.08	1.97		
Sep 2	1.97	1.99	2.01	2.04	2.13	2.12	2.09	2.12	2.08	2.08	2.05	2.02	2.03	2.03	2.02	2.02	2.01	S	2.02	2.04	2.05	2.01	2.03	1.97	2.13	2.04		
Sep 3	2.02	2.03	2.03	2.02	2.02	2.01	2.02	2.03	2.06	2.08	2.07	2.08	2.06	2.03	2.01	1.98	1.98	S	1.99	2.00	2.00	2.03	2.04	2.05	1.98	2.08	2.03	
Sep 4	2.05	2.05	2.03	2.02	2.04	2.03	2.05	2.05	2.01	2.01	2.01	2.00	1.99	1.99	1.99	1.99	S	1.99	1.99	2.00	2.01	2.02	2.02	1.99	2.05	2.01		
Sep 5	2.03	2.05	2.07	2.05	2.04	2.03	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.02	2.03	S	2.03	2.02	2.02	2.03	2.05	2.06	2.07	2.08	2.02	2.08	2.04	
Sep 6	2.09	2.09	2.09	2.10	2.08	2.07	2.06	2.06	2.06	2.06	2.06	2.04	2.05	2.04	S	2.04	2.05	2.05	2.06	2.06	2.07	2.08	2.06	2.06	2.04	2.10	2.06	
Sep 7	2.07	2.05	2.04	2.04	2.01	2.03	2.03	2.02	2.01	C	C	C	C	C	C	1.96	1.97	1.97	1.97	1.97	1.97	2.00	2.03	2.03	1.96	2.07	2.01	
Sep 8	2.03	2.02	2.01	2.01	2.02	2.01	2.01	2.01	2.02	2.00	1.99	1.99	S	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.99	1.99	2.01	1.97	2.03	2.00	
Sep 9	2.02	2.03	2.04	2.07	2.09	2.10	2.13	2.13	2.12	2.06	2.00	S	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	2.00	2.01	2.01	2.02	1.97	2.13	2.03	
Sep 10	2.12	2.14	2.16	2.09	2.07	2.09	2.12	2.09	2.05	2.04	S	2.00	1.98	1.98	1.97	1.96	1.96	1.95	1.98	2.01	2.02	2.01	2.00	2.00	1.95	2.16	2.03	
Sep 11	2.00	2.01	2.01	2.01	2.01	2.02	2.03	2.02	2.02	S	1.99	1.99	1.97	1.96	1.97	1.99	2.03	2.04	2.04	2.08	2.07	1.98	1.98	1.98	1.96	2.08	2.01	
Sep 12	1.98	1.97	1.98	1.99	2.00	2.00	2.00	2.03	S	2.03	2.05	2.07	2.07	2.04	2.02	2.00	1.99	1.99	1.99	2.04	2.08	2.01	2.00	1.97	1.97	2.08	2.01	
Sep 13	1.96	1.95	1.95	1.95	1.96	1.98	1.97	S	1.95	1.95	1.95	1.96	1.96	1.95	1.96	1.94	1.94	1.96	1.95	1.95	1.95	1.96	1.99	1.94	1.99	1.96		
Sep 14	1.99	1.99	1.99	2.00	2.00	2.02	S	2.01	2.00	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.01	2.00	2.01	1.98	2.02	1.99		
Sep 15	2.02	2.02	2.01	2.01	2.03	S	2.02	2.03	2.03	2.02	2.00	1.98	1.98	1.97	1.95	1.95	1.96	1.97	1.98	2.00	1.99	2.00	2.00	1.95	2.03	1.99		
Sep 16	2.00	2.06	2.08	2.05	S	2.04	2.03	2.03	2.03	1.99	1.97	1.97	1.97	1.99	2.00	2.03	2.06	2.04	2.03	2.06	2.09	2.10	2.09	2.07	1.97	2.10	2.03	
Sep 17	2.08	2.10	2.08	S	2.12	2.15	2.19	2.18	2.11	2.09	2.05	2.01	2.00	2.00	1.97	1.95	1.96	1.98	2.00	2.02	2.03	2.05	2.07	1.95	2.19	2.05		
Sep 18	2.08	2.08	S	1.95	1.94	1.95	1.96	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.00	2.01	2.02	1.94	2.08	1.99	
Sep 19	2.02	S	2.02	2.02	1.93	2.03	2.03	2.03	2.02	2.01	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.01	2.02	2.03	2.04	2.05	1.99	2.05	2.01	
Sep 20	S	2.04	2.05	2.05	2.06	2.04	2.05	2.06	2.08	2.07	2.18	3.02	2.92	2.67	2.53	2.38	3.13	3.06	3.01	2.93	2.86	2.37	2.12	S	2.04	3.13	2.44	
Sep 21	2.05	2.06	2.05	2.05	2.03	2.02	2.01	2.02	2.01	2.00	2.00	1.99	1.98	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	S	1.99	1.97	2.06	2.00
Sep 22	2.00	2.00	2.00	1.99	2.00	2.01	2.01	2.01	2.00	1.99	1.98	1.96	1.94	1.94	1.96	1.96	1.95	1.95	1.96	2.00	2.01	S	2.02	2.01	1.94	2.02	1.98	
Sep 23	2.00	2.00	2.01	2.01	2.03	2.05	2.06	2.09	2.06	2.03	2.04	2.01	1.97	1.97	1.96	1.97	1.95	1.95	1.96	2.00	S	1.95	1.95	1.97	1.95	2.09	2.00	
Sep 24	1.97	1.96	1.98	1.98	1.99	1.99	2.00	2.00	2.00	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	1.97	1.99	2.01	2.02	1.96	2.02	1.98
Sep 25	2.02	2.03	2.04	2.02	2.01	2.02	2.02	2.07	1.99	1.98	2.02	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.99	S	1.99	2.00	2.00	2.00	1.98	2.07	2.01	
Sep 26	2.00	2.00	2.01	2.02	2.02	2.04	2.05	2.04	2.04	2.03	2.01	2.00	1.98	1.97	1.95	1.95	1.95	S	1.96	1.96	1.97	1.99	1.99	1.99	1.95	2.05	2.00	
Sep 27	2.00	2.01	2.05	2.03	2.03	2.07	2.02	1.99	1.99	1.97	1.96	1.95	1.95	1.95	1.96	1.96	S	1.96	1.96	1.98	2.01	1.98	1.98	1.98	1.95	2.07	1.99	
Sep 28	2.02	2.06	2.03	2.01	1.99	1.99	1.99	2.00	2.06	2.26	2.25	2.33	2.25	2.19	2.18	S	2.17	2.17	2.21	2.23	2.19	2.14	2.09	2.09	1.99	2.33	2.13	
Sep 29	2.13	2.12	2.13	2.15	2.15	2.15	2.12	2.10	2.09	2.09	2.07	2.06	2.05	2.05	S	2.06	2.06	2.07	2.07	2.08	2.08	2.09	2.09	2.12	2.05	2.15	2.09	
Sep 30	2.12	2.11	2.11	2.09	2.10	2.10	2.10	2.10	2.09	2.09	2.06	2.04	2.03	S	2.00	2.01	2.02	2.03	2.04	2.05	2.05	2.04	2.04	2.00	2.12	2.06	2.06	
Diurnal Maximum	2.13	2.14	2.16	2.15	2.15	2.15	2.19	2.18	2.12	2.26	2.25	3.02	2.92	2.67	2.53	2.38	3.13	3.06	3.01	2.93	2.86	2.37	2.12	2.12				
Diurnal Average	2.03	2.03	2.04	2.03	2.04	2.04	2.04	2.05	2.03	2.02	2.05	2.04	2.02	2.01	1.99	2.03	2.03	2.04	2.05	2.05	2.03	2.02	2.02					

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

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

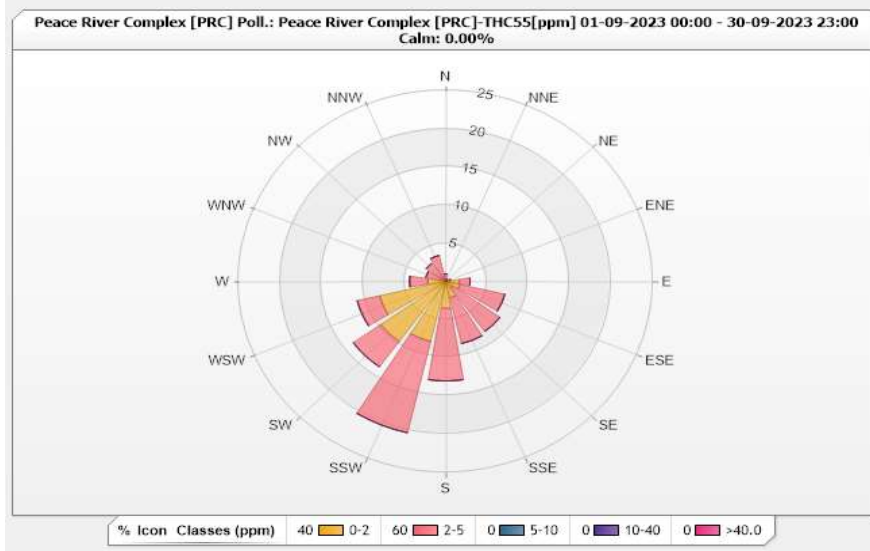


**Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 09-2023**

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

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

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	1.02	0	0	0	1.02
NNE	0	0.29	0	0	0	0.29
NE	0	0.15	0	0	0	0.15
ENE	0.29	0.29	0	0	0	0.58
E	1.61	1.32	0	0	0	2.93
ESE	1.75	5.56	0	0	0	7.31
SE	1.02	7.02	0	0	0	8.04
SSE	2.19	6.14	0	0	0	8.33
S	3.51	9.5	0	0	0	13.01
SSW	8.04	12.28	0	0	0	20.32
SW	9.65	4.09	0	0	0	13.74
WSW	8.19	2.78	0	0	0	10.97
W	2.19	2.19	0	0	0	4.38
WNW	0.58	1.9	0	0	0	2.48
NW	0.44	2.49	0	0	0	2.93
NNW	0.15	3.36	0	0	0	3.51
Summary	39.61	60.38	0	0	0	100





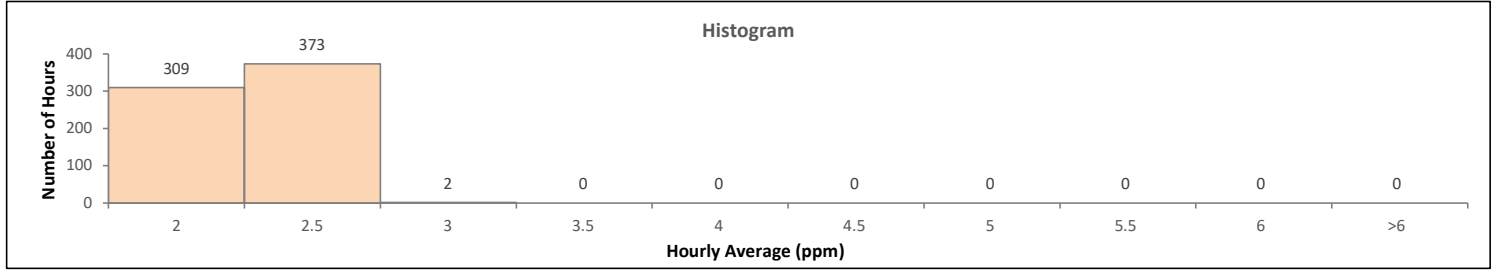
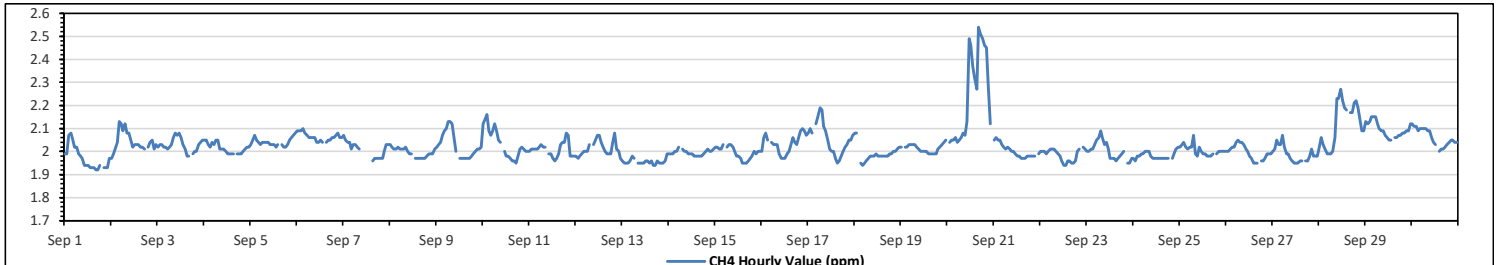
**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**METHANE (CH4) in ppm**

Maximum Hourly Value:	2.54 ppm	on Sep 20 at hr 16	Hours in Service:	720
Maximum Daily Value:	2.25 ppm	on Sep 20	Hours of Data:	684
Minimum Hourly Value:	1.92 ppm	on Sep 1 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	1.96 ppm	on Sep 13	Hours of Calibration:	36
Monthly Average:	2.03 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	
Sep 1	1.99	1.99	2.07	2.08	2.05	2.02	2.02	1.99	1.98	1.97	1.94	1.94	1.93	1.93	1.93	1.92	1.92	1.94	S	1.93	1.93	1.93	1.97	1.92	2.08	1.97		
Sep 2	1.97	1.99	2.01	2.04	2.13	2.12	2.09	2.12	2.08	2.08	2.05	2.02	2.03	2.03	2.02	2.02	2.01	S	2.02	2.04	2.05	2.01	2.03	1.97	2.13	2.04		
Sep 3	2.02	2.03	2.03	2.02	2.02	2.01	2.02	2.03	2.06	2.08	2.07	2.08	2.06	2.03	2.01	1.98	1.98	S	1.99	2.00	2.00	2.03	2.04	2.05	1.98	2.08	2.03	
Sep 4	2.05	2.05	2.03	2.02	2.04	2.03	2.05	2.05	2.01	2.01	2.01	2.00	1.99	1.99	1.99	1.99	S	1.99	1.99	2.00	2.01	2.02	2.02	1.99	2.05	2.01		
Sep 5	2.03	2.05	2.07	2.05	2.04	2.03	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.02	2.03	S	2.03	2.02	2.02	2.03	2.05	2.06	2.07	2.08	2.02	2.08	2.04	
Sep 6	2.09	2.09	2.09	2.10	2.08	2.07	2.06	2.06	2.06	2.06	2.06	2.04	2.05	2.04	S	2.04	2.05	2.05	2.06	2.06	2.07	2.08	2.06	2.06	2.04	2.10	2.06	
Sep 7	2.07	2.05	2.04	2.04	2.01	2.03	2.03	2.02	2.01	C	C	C	C	C	C	1.96	1.97	1.97	1.97	1.97	1.97	2.00	2.03	1.96	2.07	2.01		
Sep 8	2.03	2.02	2.01	2.01	2.02	2.01	2.01	2.01	2.02	2.00	1.99	1.99	S	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.99	2.01	1.97	2.03	2.00		
Sep 9	2.02	2.03	2.04	2.07	2.02	2.10	2.13	2.13	2.12	2.06	2.00	S	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	2.00	2.01	2.02	1.97	2.13	2.03	
Sep 10	2.12	2.14	2.16	2.09	2.07	2.09	2.12	2.09	2.05	2.04	S	2.00	1.98	1.98	1.97	1.96	1.96	1.95	1.98	2.01	2.02	2.01	2.00	2.00	1.95	2.16	2.03	
Sep 11	2.00	2.01	2.01	2.01	2.02	2.03	2.02	2.02	S	1.99	1.99	1.97	1.96	1.97	1.99	2.03	2.04	2.04	2.08	2.07	1.98	1.98	1.98	1.96	2.08	2.01		
Sep 12	1.98	1.97	1.98	1.99	2.00	2.00	2.00	2.03	S	2.03	2.05	2.07	2.07	2.04	2.02	2.00	1.99	1.99	1.99	2.04	2.08	2.01	2.00	1.97	1.97	2.08	2.01	
Sep 13	1.96	1.95	1.95	1.95	1.96	1.98	1.97	S	1.95	1.95	1.95	1.96	1.96	1.96	1.95	1.96	1.94	1.94	1.96	1.95	1.95	1.95	1.96	1.94	1.99	1.96		
Sep 14	1.99	1.99	1.99	2.00	2.00	2.02	S	2.01	2.00	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.01	2.00	2.00	2.01	1.98	2.02	1.99	
Sep 15	2.02	2.02	2.01	2.01	2.03	S	2.02	2.03	2.03	2.02	2.00	1.98	1.98	1.97	1.95	1.95	1.95	1.96	1.97	1.98	2.00	1.99	2.00	2.00	1.95	2.03	1.99	
Sep 16	2.00	2.06	2.08	2.05	S	2.04	2.03	2.03	2.03	1.99	1.97	1.97	1.97	1.99	2.00	2.03	2.06	2.04	2.03	2.06	2.09	2.10	2.09	2.07	1.97	2.10	2.03	
Sep 17	2.08	2.10	2.08	S	2.12	2.15	2.19	2.18	2.11	2.09	2.05	2.01	2.00	2.00	1.97	1.95	1.96	1.98	2.00	2.02	2.03	2.05	2.05	2.07	1.95	2.19	2.05	
Sep 18	2.08	2.08	S	1.95	1.94	1.95	1.96	1.97	1.98	1.98	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.00	2.01	2.02	1.94	2.08	1.99
Sep 19	2.02	S	2.02	2.02	2.03	2.03	2.03	2.02	2.01	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.01	2.02	2.03	2.04	2.05	1.99	2.05	2.01	
Sep 20	S	2.04	2.05	2.05	2.06	2.04	2.05	2.06	2.08	2.07	2.13	2.49	2.46	2.37	2.32	2.27	2.54	2.51	2.49	2.46	2.45	2.30	2.12	S	2.04	2.54	2.25	
Sep 21	2.05	2.06	2.05	2.05	2.03	2.02	2.01	2.02	2.01	2.00	2.00	1.99	1.98	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	S	1.99	1.97	2.06	2.00
Sep 22	2.00	2.00	2.00	1.99	2.00	2.01	2.01	2.01	2.00	1.99	1.98	1.96	1.94	1.94	1.96	1.96	1.95	1.95	1.96	2.00	2.01	S	2.02	2.01	1.94	2.02	1.98	
Sep 23	2.00	2.00	2.01	2.01	2.03	2.05	2.06	2.09	2.06	2.03	2.04	2.01	1.97	1.97	1.96	1.97	1.98	1.99	2.00	S	1.95	1.95	1.97	1.95	2.09	2.00		
Sep 24	1.97	1.96	1.98	1.98	1.99	1.99	2.00	2.00	2.00	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	1.97	1.97	1.99	2.01	2.02	1.96	2.02	1.98
Sep 25	2.02	2.03	2.04	2.02	2.01	2.02	2.02	2.07	1.99	1.98	2.02	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.99	S	1.99	2.00	2.00	2.00	2.00	1.98	2.07	2.01
Sep 26	2.00	2.01	2.01	2.02	2.02	2.04	2.05	2.04	2.04	2.03	2.01	2.00	1.98	1.97	1.95	1.95	1.95	1.95	S	1.96	1.96	1.97	1.99	1.99	1.99	1.95	2.05	2.00
Sep 27	2.00	2.01	2.05	2.03	2.03	2.07	2.02	1.99	1.99	1.97	1.96	1.95	1.95	1.95	1.96	1.96	S	1.96	1.96	1.98	2.01	1.98	1.98	1.98	1.95	2.07	1.99	
Sep 28	2.02	2.06	2.03	2.01	1.99	1.99	1.99	2.00	2.06	2.23	2.23	2.27	2.22	2.19	2.18	S	2.17	2.17	2.21	2.22	2.19	2.14	2.09	2.09	1.99	2.27	2.12	
Sep 29	2.13	2.12	2.13	2.15	2.15	2.15	2.12	2.10	2.09	2.09	2.07	2.06	2.05	2.05	S	2.06	2.06	2.07	2.07	2.08	2.08	2.09	2.09	2.12	2.05	2.15	2.09	
Sep 30	2.12	2.11	2.11	2.09	2.10	2.10	2.10	2.10	2.09	2.09	2.06	2.04	2.03	S	2.00	2.01	2.02	2.03	2.04	2.05	2.05	2.04	2.04	2.00	2.12	2.06	2.06	
Diurnal Maximum	2.13	2.14	2.16	2.15	2.15	2.15	2.19	2.18	2.12	2.23	2.23	2.49	2.46	2.37	2.32	2.27	2.54	2.51	2.49	2.46	2.45	2.30	2.12	2.12				
Diurnal Average	2.03	2.03	2.04	2.03	2.04	2.04	2.04	2.05	2.03	2.02	2.03	2.02	2.02	2.01	2.00	1.99	2.01	2.02	2.03	2.04	2.03	2.02	2.02					

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

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

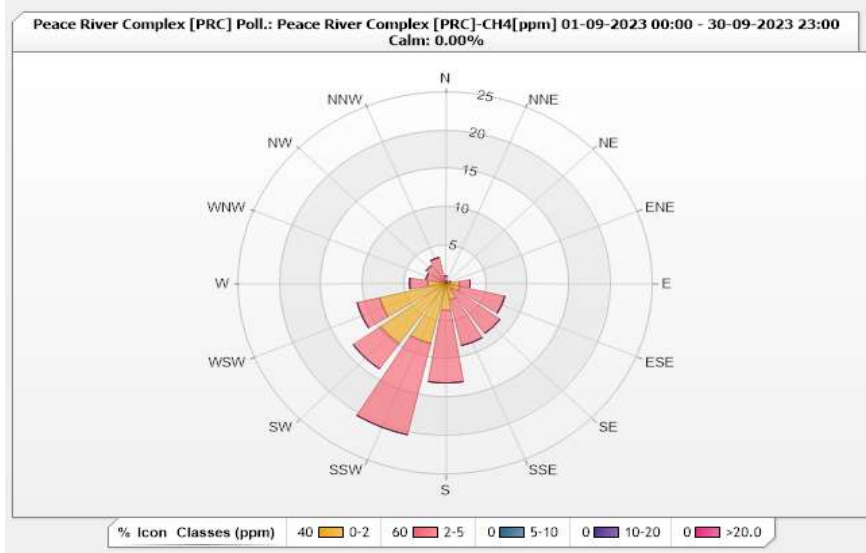


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 09-2023

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

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

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	1.02	0	0	0	1.02
NNE	0	0.29	0	0	0	0.29
NE	0	0.15	0	0	0	0.15
ENE	0.29	0.29	0	0	0	0.58
E	1.61	1.32	0	0	0	2.93
ESE	1.75	5.56	0	0	0	7.31
SE	1.02	7.02	0	0	0	8.04
SSE	2.19	6.14	0	0	0	8.33
S	3.51	9.5	0	0	0	13.01
SSW	8.04	12.28	0	0	0	20.32
SW	9.65	4.09	0	0	0	13.74
WSW	8.19	2.78	0	0	0	10.97
W	2.19	2.19	0	0	0	4.38
WNW	0.58	1.9	0	0	0	2.48
NW	0.44	2.49	0	0	0	2.93
NNW	0.15	3.36	0	0	0	3.51
Summary	39.61	60.38	0	0	0	100



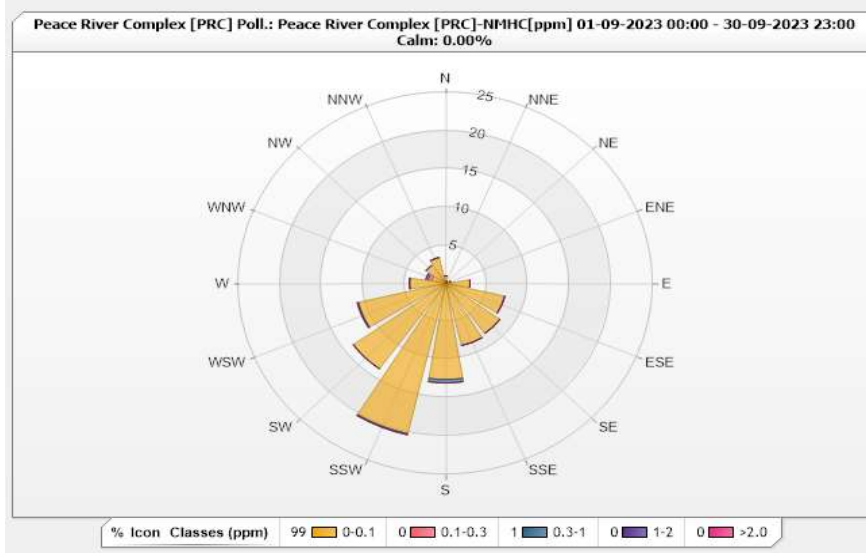


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 09-2023

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

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

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	1.02	0	0	0	0	1.02
NNE	0.29	0	0	0	0	0.29
NE	0.15	0	0	0	0	0.15
ENE	0.58	0	0	0	0	0.58
E	2.92	0	0	0	0	2.92
ESE	7.31	0	0	0	0	7.31
SE	8.04	0	0	0	0	8.04
SSE	8.33	0	0	0	0	8.33
S	12.57	0	0.44	0	0	13.01
SSW	20.18	0	0.15	0	0	20.33
SW	13.74	0	0	0	0	13.74
WSW	10.82	0	0.15	0	0	10.97
W	4.39	0	0	0	0	4.39
WNW	1.75	0.44	0.29	0	0	2.48
NW	2.92	0	0	0	0	2.92
NNW	3.51	0	0	0	0	3.51
Summary	98.52	0.44	1.03	0	0	100



**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**RELATIVE HUMIDITY (RH) in %**

Maximum Hourly Value:	100 %	on Sep 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	96.5 %	on Sep 28	Hours of Data:	720
Minimum Hourly Value:	18 %	on Sep 22 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	45.9 %	on Sep 15	Hours of Calibration:	0
Monthly Average:	67.5 %		Operational Uptime:	100.0

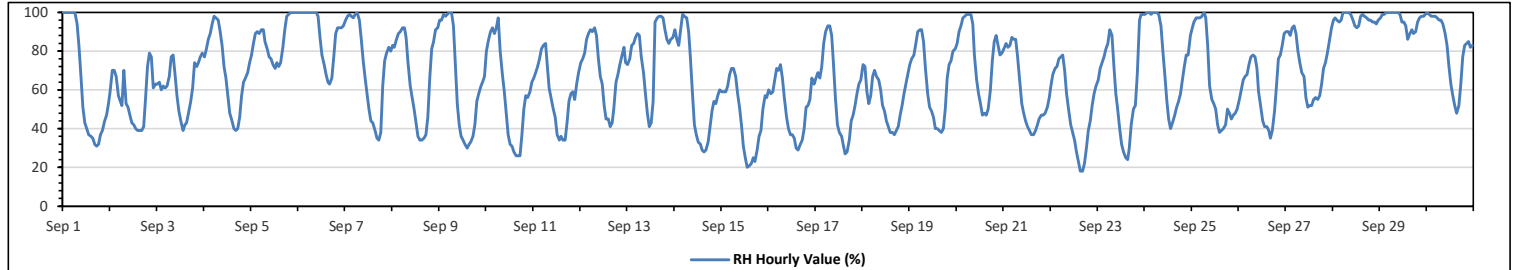
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	100	100	100	100	100	100	100	94	82	67	51	43	40	37	36	35	32	31	32	37	39	44	47	53	31	100	62.5
Sep 2	59	70	70	67	57	54	52	70	53	51	47	43	42	40	39	39	39	41	56	72	79	77	61	63	39	79	55.9
Sep 3	63	64	60	62	61	62	67	77	78	68	57	49	44	39	42	43	48	54	61	74	72	74	77	79	39	79	61.5
Sep 4	77	81	86	89	94	98	97	96	90	83	72	66	57	48	44	40	39	40	46	57	64	66	69	74	39	98	69.7
Sep 5	78	84	89	90	89	91	91	85	81	77	76	73	71	74	72	74	82	91	98	99	100	100	100	100	71	100	86.0
Sep 6	100	100	100	100	100	100	100	100	100	100	98	87	78	73	68	64	63	66	77	89	92	92	92	93	63	100	88.8
Sep 7	96	98	99	98	97	99	100	96	86	75	66	58	50	44	43	39	35	34	38	62	75	79	82	80	34	100	72.0
Sep 8	83	82	86	89	90	92	92	87	74	62	56	50	42	36	34	34	35	37	46	66	81	85	91	92	34	92	67.6
Sep 9	96	96	99	98	99	100	100	93	73	53	42	36	34	32	30	32	33	36	42	54	58	62	64	67	30	100	63.7
Sep 10	80	86	90	92	89	92	97	80	68	59	48	37	32	31	28	26	26	26	37	50	57	56	59	64	26	97	58.8
Sep 11	66	69	72	76	81	83	84	71	61	55	50	46	37	34	36	34	34	43	54	58	59	55	63	69	34	84	57.9
Sep 12	74	76	79	86	89	91	90	92	88	76	67	63	52	45	45	41	43	50	64	68	73	78	82	74	41	92	70.3
Sep 13	73	76	83	84	87	89	88	77	69	58	48	41	43	54	95	97	98	98	97	91	86	84	86	87	41	98	78.7
Sep 14	91	86	83	91	99	98	97	90	78	58	42	37	33	32	29	28	29	33	41	49	54	53	57	60	28	99	60.3
Sep 15	59	59	59	62	68	71	71	67	58	51	42	31	25	20	21	22	25	23	29	36	39	50	57	56	20	71	45.9
Sep 16	60	58	59	65	71	70	73	66	56	46	40	37	37	35	30	29	32	34	40	51	52	55	66	63	29	73	51.0
Sep 17	66	69	66	72	84	90	93	93	88	75	55	42	38	36	31	27	28	34	44	47	52	58	63	65	27	93	59.0
Sep 18	73	72	59	53	57	67	70	67	65	60	52	49	44	41	38	38	37	39	41	47	52	58	64	69	37	73	54.7
Sep 19	73	76	78	84	90	91	91	85	71	58	51	49	46	40	40	39	38	40	50	66	73	75	80	81	38	91	65.2
Sep 20	84	90	93	97	98	99	99	99	94	78	65	58	53	47	48	47	50	60	75	85	88	83	78	79	47	99	77.0
Sep 21	81	84	82	83	87	86	86	77	64	53	48	44	41	39	37	37	39	42	45	47	47	48	51	56	37	87	58.5
Sep 22	62	68	71	72	76	77	78	70	58	49	42	38	34	28	23	18	18	22	30	39	44	52	58	62	18	78	49.5
Sep 23	65	71	74	77	81	84	91	88	72	58	51	40	32	28	25	24	30	42	50	52	68	96	99	99	24	99	62.4
Sep 24	99	100	100	99	100	100	100	99	93	80	68	55	45	40	43	47	51	54	58	65	72	78	78	88	40	100	75.5
Sep 25	92	95	97	97	97	98	100	97	83	62	55	53	50	42	38	39	40	42	50	48	45	47	48	50	38	100	65.2
Sep 26	55	60	65	67	68	73	77	78	77	71	59	51	44	41	39	35	39	49	62	76	78	83	89	35	89	61.5	
Sep 27	90	90	88	92	93	89	80	74	69	67	56	51	52	52	55	56	55	57	63	71	74	79	85	92	51	93	72.1
Sep 28	96	97	96	95	96	100	100	100	100	99	96	93	92	93	98	99	98	97	96	96	95	95	94	96	92	100	96.5
Sep 29	97	99	99	100	100	100	100	100	100	100	99	95	95	93	86	89	91	89	90	95	97	98	98	99	86	100	96.2
Sep 30	100	99	98	98	97	96	96	94	89	83	72	63	57	52	48	52	63	77	83	84	85	82	83	48	100	81.2	
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	99	95	95	93	98	99	98	98	98	99	100	100	100	100			
Diurnal Average	79.6	81.8	82.7	84.5	86.5	88.0	88.7	85.5	77.4	67.9	59.4	52.9	48.2	45.0	44.9	44.1	45.2	48.6	55.9	63.9	68.2	71.3	73.8	76.1			

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

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



**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**BAROMETRIC PRESSURE (BP) in millibar**

Maximum Hourly Value:	954	mb	on Sep 9 at hr 7	Hours in Service:	720
Maximum Daily Value:	953	mb	on Sep 9	Hours of Data:	720
Minimum Hourly Value:	927	mb	on Sep 1 at hr 17	Hours of Missing Data:	0
Minimum Daily Value:	932	mb	on Sep 17	Hours of Calibration:	0
Monthly Average:	940	mb		Operational Uptime:	100.0

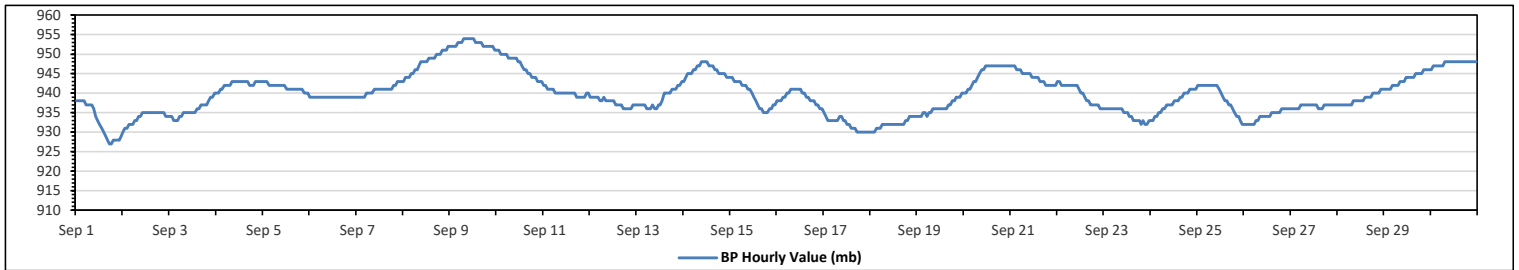
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	938	938	938	938	938	937	937	937	937	936	934	933	932	931	930	929	928	927	927	928	928	928	928	929	927	938	933	
Sep 2	930	931	931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

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

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



**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**AMBIENT TEMPERATURE (AT) in Degree Celsius**

Maximum Hourly Value:	26.0 °C	on Sep 15 at hr 15	Hours in Service:	720
Maximum Daily Value:	17.2 °C	on Sep 11	Hours of Data:	720
Minimum Hourly Value:	-1.3 °C	on Sep 25 at hr 5	Hours of Missing Data:	0
Minimum Daily Value:	6.2 °C	on Sep 29	Hours of Calibration:	0
Monthly Average:	11.8 °C		Operational Uptime:	100.0

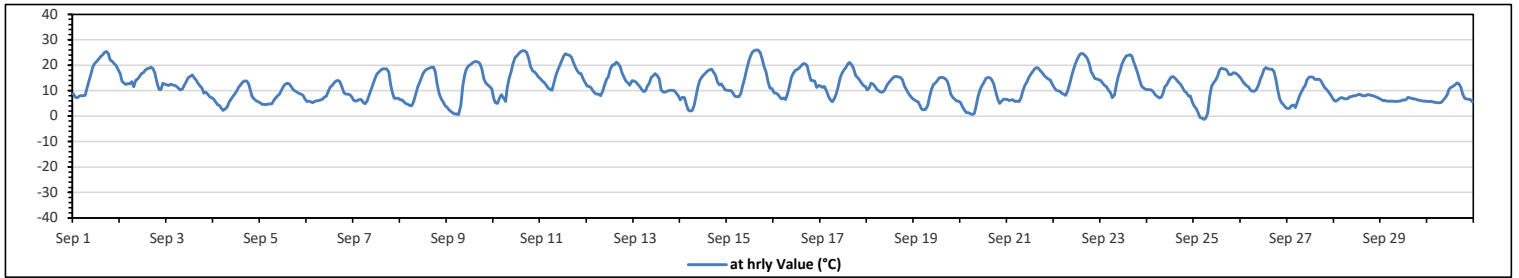
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	8.8	7.3	7.2	7.9	8	8.1	8.2	11	13.8	16.4	19.3	20.7	21.5	22.4	23.3	24.2	25.1	25.4	24.5	22.1	21.5	20.5	19.8	18.3	7.2	25.4	16.9
Sep 2	16.5	13.7	13.1	12.4	12.8	12.7	13.6	11.5	14	14.6	15.6	16.7	17.1	18	18.7	18.9	19.1	18.7	16.9	12.9	10.6	10.4	12.9	12.5	10.4	19.1	14.7
Sep 3	12.3	12.1	12.5	12.3	12	11.6	10.9	10.3	10.7	12.2	13.6	15	15.6	16.2	15.2	14.3	13	12.1	11	9	9.4	8.6	7.7	7.2	7.2	16.2	11.9
Sep 4	6.8	5.7	4.6	4.2	2.9	2.2	2.7	3.6	5.5	6.6	7.8	8.7	9.9	11.4	12.3	13.3	13.7	13.7	12.7	9.8	7.6	6.7	6	5.6	2.2	13.7	7.7
Sep 5	5.2	4.6	4.6	4.5	4.7	4.7	4.8	6.3	7.2	8.1	8.8	10.3	11.8	12.5	12.9	12.6	11.4	10.4	9.9	9.4	8.9	8.6	8.2	6.8	4.5	12.9	8.2
Sep 6	5.7	5.8	5.6	5.2	5.7	6	6.1	6.4	6.7	7.3	7.9	9.7	11.4	12.1	13	13.7	14	13.6	11.7	9.2	8.6	8.6	8.4	7.6	5.2	14.0	8.8
Sep 7	6.2	5.8	6.1	6.5	6.5	5.3	4.8	5.9	8.1	10.6	12.7	14.8	16.5	17.4	18	18.6	18.6	18.6	17.3	12.2	8.9	7	7	7	4.8	18.6	10.9
Sep 8	6.4	6.4	5.5	4.8	4.6	4.2	4.1	5.9	9	11.6	13.4	15.4	17	18	18.6	18.9	19.2	19.2	17.6	12.7	9	7	5.5	4.2	4.1	19.2	10.8
Sep 9	3.5	2.5	1.8	1.3	0.9	0.8	0.6	4.1	11.7	16.1	18.3	19.6	20.3	20.8	21.3	21.5	21.2	20.5	18.4	14.7	13	12.2	11.5	10.7	0.6	21.5	12.0
Sep 10	6.9	5.2	5	7.1	8.4	7.2	5.7	11.1	14.8	17.4	20.6	23	23.7	24.7	25.4	25.7	25.6	25	22.8	19.5	17.7	17.3	16.5	15.4	5.0	25.7	16.3
Sep 11	14.8	13.8	13.2	12.2	11	10.6	10.2	13	16	18.1	20.1	21.9	23.7	24.4	24.1	23.8	23	21.1	19.1	17.8	16.8	16.7	14.7	13.3	10.2	24.4	17.2
Sep 12	11.8	11.6	11.1	9.8	9	8.6	8.6	8.1	9.6	12.5	14.5	15.4	18.4	20.1	20.3	21.2	20.6	19.5	17	15.3	13.8	13.1	12.2	13.9	8.1	21.2	14.0
Sep 13	13.7	13.4	12.6	11.6	10.6	9.6	9.8	11.8	12.9	15.1	15.8	16.6	16	14.7	10.3	9.5	9.4	9.7	10	10.1	10.2	9.8	8.8	7.9	7.9	16.6	11.7
Sep 14	6.4	7.4	7.2	4.5	2.4	2	2.2	4.1	7.8	11.5	14	15.3	16.3	17.1	17.7	18.2	18.4	17.2	16.1	13.4	12.3	12.6	11.5	10.3	2.0	18.4	11.1
Sep 15	10.2	10	10	8.9	7.8	7.6	7.7	8.9	12	14.8	18.2	21.6	23.5	25.1	25.7	26	25.8	24.8	22.3	19.3	17.4	13.6	11	10.9	7.6	26.0	16.0
Sep 16	9.2	9	8.5	7.7	6.8	7.1	6.5	8.7	11.8	15.1	16.8	17.9	18.3	18.9	19.9	20.5	20.5	19.8	17.3	14	13.9	13.8	11.3	12.1	6.5	20.5	13.6
Sep 17	11.8	11.2	11.6	10.2	7.8	6.4	5.6	6.8	8.6	11.4	14.8	16.8	18.1	19.2	20.6	21.1	20.3	18.9	15.9	15.1	14.1	13.1	12	11.7	5.6	21.1	13.5
Sep 18	10.3	11	12.9	12.5	11.5	10.4	9.8	9.4	9.5	10.3	12.1	13.1	14.2	14.9	15.6	15.5	15.4	15.1	14.3	11.9	10.5	9.2	8	7.1	7.1	15.6	11.9
Sep 19	6.5	6	5.6	4.1	2.8	2.5	2.6	4.1	7.6	10.6	12.4	13.1	13.9	15	15.1	15.1	14.7	13.8	11.5	8.6	7.2	6.7	5.9	5.8	2.5	15.1	8.8
Sep 20	5.2	3.6	2.3	1.4	1.4	1	0.6	1.1	4.3	8.1	10.4	12	13.3	14.8	15.2	15	14.3	12.8	9.8	6.6	5	5.9	6.7	6.6	0.6	15.2	7.4
Sep 21	6.5	6.1	6.4	6.4	5.7	5.8	5.7	7.2	9.7	12.2	13.5	15.2	16.4	17.5	18.6	19	18.8	17.8	17.1	15.8	15.2	14.6	14.1	12.7	5.7	19.0	12.4
Sep 22	11.3	10.3	9.9	9.7	8.9	8.6	8.2	9.7	12.8	15.8	18.5	20.7	22.5	24	24.6	24.4	23.7	22.9	20.5	17.4	16.4	14.8	14.5	14.3	8.2	24.6	16.0
Sep 23	13.9	12.9	12	11.5	10.2	9.3	7.2	8.3	12.5	15.8	18	20.4	22.3	23.6	23.9	24.1	23.6	21.2	19.1	16.9	14.3	11.6	11	10.6	7.2	24.1	15.6
Sep 24	10.4	10.4	10.3	9.5	8.4	7.8	7.1	7.4	9.1	11.5	12.3	14	15.2	15.6	15	14.2	13.3	12.5	11.3	9.9	9.1	7.9	7.9	5.5	5.5	15.6	10.7
Sep 25	4.2	2.9	1.4	-0.5	-0.8	-1.3	-0.8	1.1	7.4	11.7	13.2	14.2	15.7	18	18.9	18.6	18.4	17.8	16.3	16.3	17.1	16.9	16.5	15.8	-1.3	18.9	10.8
Sep 26	14.8	13.6	12.7	11.9	11.4	10.2	9.7	9.7	10.4	12.3	14.7	16.4	18.3	19	18.6	18.5	18.5	17.6	14.5	10.3	6.8	5.3	4.4	3.4	3.4	19.0	12.6
Sep 27	2.9	3.1	4.2	4.3	3.3	5.4	7.7	9.3	11	12	14.2	15.2	15.4	15.3	14.4	14.4	14.6	14	12.7	11.2	10.5	9.6	8.4	7.1	2.9	15.4	10.0
Sep 28	6	5.9	6.5	7.1	7.2	6.9	6.8	6.9	7.7	7.7	8	8.1	8.4	8.6	8.2	8	8	8.3	8.4	8.2	8	7.7	7.3	7	5.9	8.6	7.5
Sep 29	6.6	6.1	6.1	5.9	5.9	5.8	5.8	5.7	5.7	5.8	5.8	6.4	6.3	6.5	7.3	7.1	6.9	6.8	6.7	6.3	6.2	6	5.9	5.8	5.7	7.3	6.2
Sep 30	5.7	5.7	5.7	5.5	5.4	5.3	5.3	5.4	6.2	7.1	8.5	10.5	11.2	11.6	12.3	13.1	12.7	11.4	8.6	7	6.8	6.7	6.5	5.6	5.3	13.1	7.9
Diurnal Maximum	16.5	13.8	13.2	12.5	12.8	12.7	13.6	13.0	16.0	18.1	20.6	23.0	23.7	25.1	25.7	26.0	25.8	25.4	24.5	22.1	21.5	20.5	19.8	18.3			
Diurnal Average	8.7	8.1	7.9	7.3	6.8	6.4	6.3	7.4	9.8	12.0	13.8	15.3	16.4	17.2	17.5	17.6	17.4	16.7	15.0	12.8	11.6	10.8	10.1	9.4			

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

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



**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**STATION TEMPERATURE (ST) in Degree Celsius**

Maximum Hourly Value:	26.6	°C	on Sep 7 at hr 12	Hours in Service:	720
Maximum Daily Value:	24.2	°C	on Sep 21	Hours of Data:	720
Minimum Hourly Value:	21.2	°C	on Sep 25 at hr 7	Hours of Missing Data:	0
Minimum Daily Value:	22.7	°C	on Sep 9	Hours of Calibration:	0
Monthly Average:	23.3	°C		Operational Uptime:	100.0

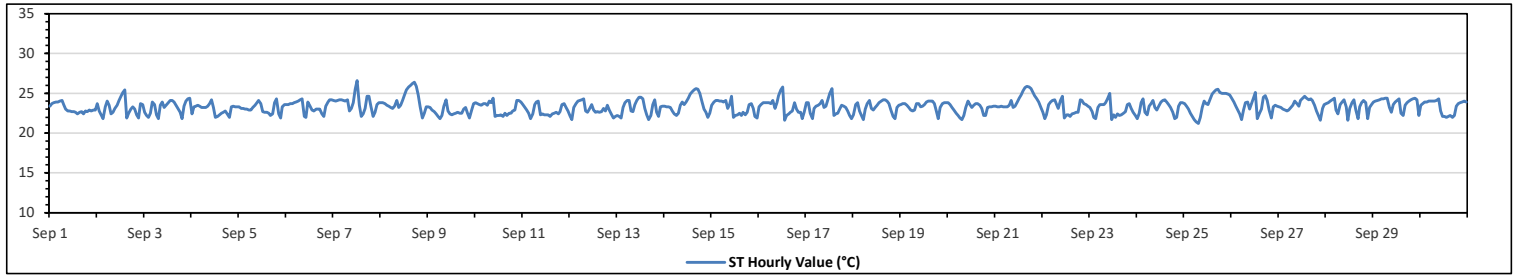
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	23.4	23.7	23.8	23.9	23.9	24.0	24.1	23.6	23.0	22.8	22.8	22.7	22.7	22.6	22.4	22.6	22.7	22.4	22.8	22.7	22.9	22.8	22.9	22.9	22.4	24.1	23.1
Sep 2	23.7	22.8	22.3	21.8	23.3	24.0	23.5	22.4	22.6	23.1	23.5	24.1	24.6	25.1	25.4	21.9	22.5	23.0	23.3	23.0	22.3	21.9	23.7	23.6	21.8	25.4	23.2
Sep 3	22.6	22.2	22.0	22.5	23.9	23.6	22.3	21.8	23.5	23.9	23.2	23.5	23.8	24.1	24.1	23.9	23.5	23.1	22.6	21.8	23.4	24.0	24.3	24.4	21.8	24.4	23.3
Sep 4	22.4	23.3	23.4	23.5	23.4	23.2	23.2	23.2	23.4	23.7	24.2	23.2	22.0	22.1	22.3	22.5	22.6	22.8	22.4	22.0	23.3	23.4	23.3	23.3	22.0	24.2	23.0
Sep 5	23.3	23.1	23.1	23.0	23.0	22.9	22.9	23.2	23.5	23.8	24.1	23.7	22.7	22.6	22.6	22.5	22.2	22.4	23.8	24.3	22.4	21.9	23.3	23.6	21.9	24.3	23.1
Sep 6	23.6	23.6	23.7	23.7	23.8	23.9	24.0	24.2	24.3	22.1	22.0	23.9	23.4	22.9	22.8	23.0	23.0	23.0	22.4	22.1	23.4	23.9	24.2	24.2	22.0	24.3	23.4
Sep 7	24.1	24.0	24.1	24.2	24.2	24.1	24.0	24.2	22.8	23.1	23.8	25.5	26.6	23.5	22.1	22.4	23.1	24.6	24.6	23.4	22.1	22.6	23.6	23.8	22.1	26.6	23.8
Sep 8	23.8	23.8	23.7	23.5	23.4	23.2	23.1	23.4	24.1	23.2	23.5	24.1	24.8	25.4	25.8	26.0	26.2	26.4	25.9	24.8	23.3	21.9	22.5	23.3	21.9	26.4	24.1
Sep 9	23.3	23.2	22.9	22.7	22.4	22.1	21.8	22.2	23.4	24.2	22.8	22.4	22.3	22.4	22.5	22.6	22.5	22.5	23.0	23.2	22.5	21.9	22.9	23.7	21.8	24.2	22.7
Sep 10	23.8	23.7	23.6	23.5	23.7	23.7	23.5	24.0	23.8	24.4	22.1	22.2	22.2	22.3	22.1	22.5	22.2	22.5	22.5	22.8	22.9	24.1	24.1	23.9	22.1	24.4	23.2
Sep 11	23.6	23.3	22.9	22.5	21.8	22.4	23.6	23.9	24.0	22.3	22.4	22.3	22.3	22.3	22.1	22.4	22.5	22.6	22.4	22.7	23.6	23.7	23.2	22.8	21.8	24.0	22.8
Sep 12	22.1	21.7	23.2	23.7	24.0	24.1	24.2	24.3	22.8	22.6	23.1	23.6	22.9	22.6	22.7	22.6	22.7	23.1	22.8	23.5	22.9	22.4	21.9	22.1	21.7	24.3	23.0
Sep 13	22.2	22.1	21.9	23.2	23.8	24.1	24.1	22.8	22.7	23.6	24.1	24.5	24.5	24.3	23.1	22.3	21.7	22.2	23.6	24.2	22.6	22.1	23.3	23.4	21.7	24.5	23.2
Sep 14	23.4	23.3	23.3	23.2	22.8	22.4	22.2	22.5	23.5	23.9	23.6	23.9	24.4	24.9	25.2	25.4	25.6	25.5	25.0	23.9	23.0	22.6	22.0	22.5	22.0	25.6	23.7
Sep 15	23.5	23.9	24.1	24.1	24.0	24.0	23.9	24.1	23.1	23.6	24.6	22.0	22.2	22.3	22.5	22.2	22.6	22.3	22.6	23.6	23.7	23.1	22.1	21.9	21.9	24.6	23.2
Sep 16	23.3	23.6	23.8	23.8	23.8	23.8	23.7	24.1	23.1	23.8	24.7	25.4	25.8	21.6	22.2	22.4	22.6	22.8	23.8	23.0	22.6	22.6	21.8	22.6	21.6	25.8	23.4
Sep 17	23.8	23.8	22.5	21.8	23.1	23.4	23.5	23.7	24.1	23.2	23.4	24.2	25.0	25.6	22.2	22.4	22.5	23.0	23.5	23.4	23.2	22.8	22.2	21.8	21.8	25.6	23.3
Sep 18	22.3	23.6	23.8	22.8	22.2	21.7	23.0	23.7	24.1	23.1	22.9	23.2	23.5	23.8	24.0	24.2	24.2	24.0	23.7	22.9	22.1	21.8	23.2	23.5	21.7	24.2	23.2
Sep 19	23.6	23.7	23.7	23.5	23.2	22.9	22.8	22.9	23.7	23.7	23.3	23.4	23.6	23.9	24.0	24.0	24.0	23.7	22.8	21.8	23.2	23.7	23.8	23.8	21.8	24.0	23.4
Sep 20	23.8	23.6	23.2	22.9	22.5	22.2	21.9	21.7	22.2	23.2	24.0	23.6	23.2	23.5	23.7	23.7	23.5	23.1	22.2	22.2	23.2	23.3	23.3	23.4	21.7	24.0	23.0
Sep 21	23.4	23.3	23.3	23.4	23.3	23.3	23.5	24.1	23.2	23.4	23.9	24.4	24.8	25.3	25.7	25.9	25.8	25.6	25.1	24.7	24.3	23.9	23.3	23.2	25.9	24.2	23.2
Sep 22	22.6	21.8	22.3	23.6	23.9	24.1	24.2	23.6	23.1	24.1	24.6	21.9	22.3	22.3	22.1	22.4	22.5	22.6	22.6	24.2	24.1	23.7	23.6	23.4	21.8	24.6	23.2
Sep 23	23.2	22.7	22.0	21.8	23.2	23.6	23.6	23.8	24.3	25.0	21.7	22.3	22.0	22.4	22.2	22.3	22.5	22.7	23.6	23.7	23.1	22.6	22.2	21.7	25.0	22.9	23.2
Sep 24	21.8	22.5	23.8	24.3	22.6	22.3	23.4	23.7	24.1	23.2	22.9	23.4	23.9	24.1	24.2	23.9	23.6	23.2	22.6	21.8	22.0	23.4	23.8	23.8	21.8	24.3	23.3
Sep 25	23.7	23.4	23.0	22.5	22.1	21.7	21.4	21.2	22.0	23.2	24.0	23.7	23.6	24.3	24.9	25.2	25.4	25.5	25.1	25.0	25.0	25.0	24.9	24.8	21.2	25.5	23.8
Sep 26	24.4	23.9	23.4	22.9	22.4	21.7	22.9	23.8	23.9	23.0	23.7	24.4	25.1	21.8	22.5	23.0	24.5	24.7	24.1	22.9	21.9	23.3	23.5	23.4	21.7	25.1	23.4
Sep 27	23.3	23.2	23.0	22.9	22.8	22.9	23.2	23.5	24.0	23.7	23.4	24.1	24.4	24.6	24.4	24.2	24.3	24.1	23.5	22.8	22.2	21.6	23.1	23.6	21.6	24.6	23.5
Sep 28	23.7	23.8	24.0	24.2	24.4	22.9	22.4	23.6	23.9	24.2	23.3	21.6	23.1	23.8	24.2	22.9	21.8	23.3	23.8	24.1	23.8	21.8	23.2	23.6	21.6	24.4	23.4
Sep 29	23.9	24.0	24.1	24.2	24.3	24.3	24.4	24.4	23.2	22.6	23.6	23.9	24.1	24.3	22.5	22.2	23.5	23.8	24.0	24.2	24.3	24.4	24.2	22.2	22.2	24.4	23.8
Sep 30	23.5	23.7	23.9	23.9	24.0	24.0	24.0	24.0	24.1	24.3	22.8	22.1	22.1	22.0	22.1	22.2	22.0	22.2	23.4	23.7	23.8	23.9	24.0	23.9	22.0	24.3	23.3
Diurnal Maximum	24.4	24.0	24.1	24.3	24.4	24.3	24.4	24.4	24.3	24.4	25.0	25.5	26.6	25.6	25.8	26.0	26.2	26.4	25.9	25.1	25.0	25.0	24.9	24.8			
Diurnal Average	23.3	23.3	23.3	23.3	23.3	23.2	23.3	23.4	23.5	23.4	23.5	23.4	23.6	23.4	23.3	23.2	23.3	23.4	23.4	23.3	23.1	23.0	23.3	23.3			

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

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





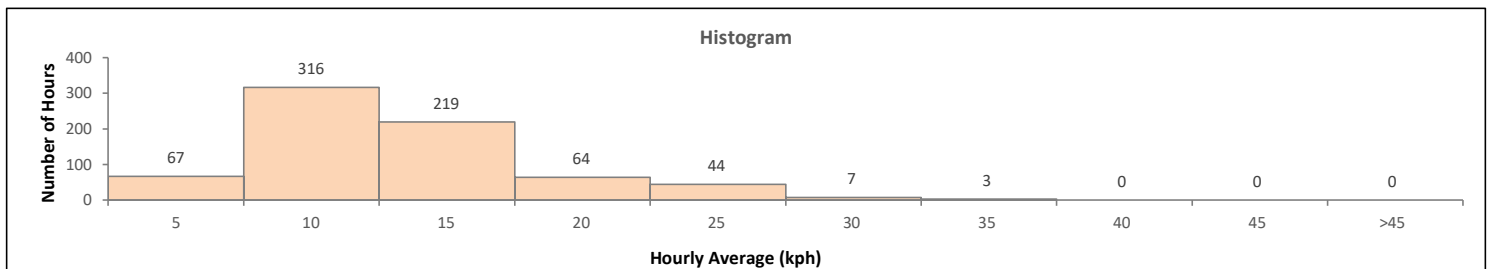
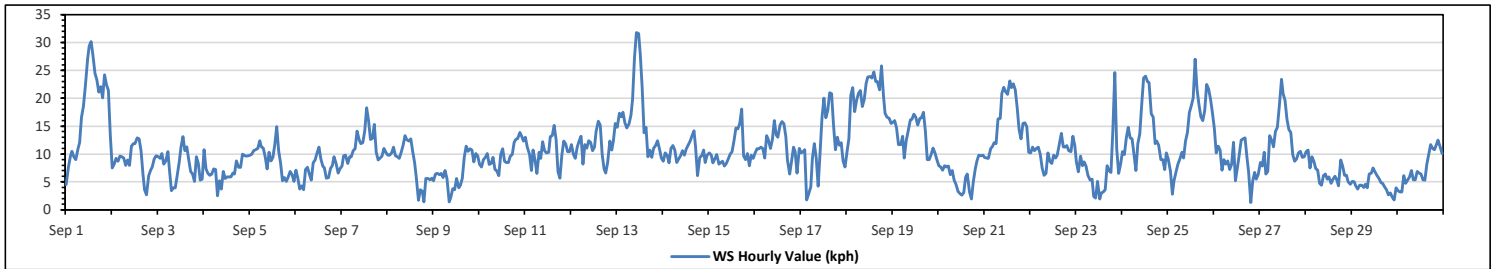
**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**VECTOR WIND SPEED (VWS) in km/hr**

Maximum Hourly Value:	31.8 kph	on Sep 13 at hr 10	Hours in Service:	720
Maximum Daily Value:	20.1 kph	on Sep 18	Hours of Data:	720
Minimum Hourly Value:	1.3 kph	on Sep 26 at hr 19	Hours of Missing Data:	0
Minimum Daily Value:	4.6 kph	on Sep 29	Hours of Calibration:	0
Monthly Average:	6.9 kph		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	4.5	7.6	9.5	10.5	9.5	9.0	10.9	12.0	16.6	18.6	22.2	27.0	29.4	30.2	27.5	24.5	23.3	21.1	22.1	20.1	24.2	22.4	21.4	13.3	4.5	30.2	18.2
Sep 2	7.5	8.2	9.2	8.7	9.6	9.5	9.3	8.0	8.9	8.0	11.4	11.9	11.9	12.9	12.7	10.6	6.4	3.6	2.7	6.1	7.1	7.7	9.1	9.7	2.7	12.9	8.8
Sep 3	9.5	9.2	10.1	8.2	8.7	10.4	7.0	3.4	3.9	6.5	8.4	11.3	13.1	10.6	11.3	9.0	6.9	6.4	5.1	9.5	8.3	5.3	5.5	3.4	13.1	8.0	
Sep 4	10.8	7.3	6.5	6.2	6.4	7.3	7.2	2.5	5.2	3.7	6.9	5.6	5.9	5.9	6.6	6.4	8.8	7.6	7.6	10.0	9.8	9.6	9.7	2.5	10.8	7.1	
Sep 5	9.8	10.0	10.6	10.8	11.0	12.4	11.3	11.1	9.5	7.3	10.3	8.8	9.4	11.7	14.9	10.6	8.4	5.2	5.8	5.1	5.9	6.9	6.3	5.1	5.1	14.9	9.1
Sep 6	7.1	5.7	3.7	4.3	3.6	7.2	7.6	6.4	5.3	8.4	8.9	10.0	11.2	9.1	7.8	7.5	5.7	5.8	7.4	8.0	9.5	8.4	6.6	7.4	3.6	11.2	7.2
Sep 7	7.8	9.7	9.8	8.3	9.5	9.5	10.6	10.9	14.1	12.5	11.9	12.0	14.1	18.3	16.0	12.6	12.8	15.3	10.3	8.9	9.3	9.6	11.0	10.3	7.8	18.3	11.5
Sep 8	9.8	9.8	10.2	11.2	9.7	9.5	9.2	10.3	11.6	13.3	12.6	12.3	12.7	10.4	8.4	5.9	1.7	3.6	3.3	1.4	5.6	5.6	5.4	5.7	1.4	13.3	8.3
Sep 9	5.2	6.4	6.5	6.3	6.5	5.8	7.0	5.6	1.4	2.2	3.8	5.6	3.9	4.4	5.7	9.4	11.4	10.5	10.9	10.7	8.6	10.1	9.7	1.4	11.4	6.7	
Sep 10	8.1	7.7	9.0	9.4	10.1	8.1	8.3	9.4	7.2	7.0	6.1	9.9	10.9	8.7	8.5	8.5	9.6	9.9	12.1	12.6	12.8	13.9	13.1	12.3	6.1	13.9	9.7
Sep 11	13.0	11.2	10.0	7.0	10.7	9.0	6.5	10.3	9.2	12.2	10.6	10.2	10.3	13.1	13.3	15.1	12.6	6.8	5.7	9.8	12.3	11.8	10.4	10.4	5.7	15.1	10.5
Sep 12	11.7	10.0	9.2	11.2	12.3	13.2	8.2	11.7	11.1	12.4	12.1	10.6	11.2	14.0	15.9	15.2	10.0	7.3	6.6	8.4	12.3	10.7	12.3	15.5	6.6	15.9	11.4
Sep 13	14.8	17.3	16.7	17.5	15.6	14.7	15.4	17.0	19.8	27.2	31.8	31.6	28.0	22.0	13.8	14.8	9.5	10.7	9.4	11.1	11.5	12.4	10.9	9.3	9.3	31.8	16.8
Sep 14	8.7	10.2	9.8	8.4	11.0	11.5	10.7	8.5	9.1	9.7	10.6	9.8	10.9	11.5	12.3	13.3	14.2	11.2	6.1	9.4	9.7	10.7	8.5	9.8	6.1	14.2	10.2
Sep 15	10.2	9.8	8.4	9.1	9.9	8.2	8.5	8.7	7.8	8.3	9.1	10.0	10.4	12.4	14.7	14.5	15.5	18.1	9.7	9.0	10.1	7.9	9.8	9.2	7.8	18.1	10.4
Sep 16	10.2	10.9	10.9	11.2	11.0	9.3	13.3	12.6	11.0	12.6	16.0	13.4	13.0	15.2	15.8	15.4	13.1	8.9	6.4	8.8	11.2	10.4	6.6	11.0	6.4	16.0	11.6
Sep 17	10.2	10.4	10.8	1.8	2.8	4.1	9.2	11.9	9.3	4.2	11.3	16.5	20.0	16.5	17.8	21.0	20.8	15.2	10.8	13.0	11.6	12.0	8.7	7.7	1.8	21.0	11.6
Sep 18	10.3	12.7	20.5	21.9	17.6	19.6	20.9	21.4	18.5	19.8	22.7	23.8	23.9	23.6	24.7	23.0	23.0	21.5	25.8	20.5	17.3	16.6	16.4	15.5	10.3	25.8	20.1
Sep 19	15.7	16.0	14.7	11.7	11.7	13.2	9.3	12.3	14.0	16.1	16.2	17.1	16.6	15.2	16.4	16.5	17.5	14.2	9.0	9.0	9.9	11.1	10.2	9.0	9.0	17.5	13.4
Sep 20	7.9	7.7	7.1	7.9	7.7	7.8	6.3	7.0	5.3	4.5	3.3	2.9	2.6	3.1	5.9	6.4	3.2	1.9	5.1	7.3	8.7	9.8	9.8	1.9	9.8	6.2	
Sep 21	9.4	9.3	9.2	10.9	11.4	12.0	11.9	16.3	16.4	20.9	22.0	21.2	20.7	23.1	21.9	22.6	21.5	18.3	14.3	12.7	15.5	15.6	14.9	10.3	9.2	23.1	15.9
Sep 22	10.2	11.2	10.6	11.0	11.2	10.0	7.5	6.2	6.5	10.2	8.7	8.3	9.8	9.3	9.8	11.6	13.7	11.3	11.2	11.5	10.6	10.4	13.2	11.5	6.2	13.7	10.2
Sep 23	8.6	6.8	9.6	7.9	8.6	7.8	6.2	5.3	5.5	2.4	2.1	5.1	1.9	3.0	3.2	3.6	7.9	7.0	6.7	14.3	24.6	10.9	6.5	8.1	1.9	24.6	7.2
Sep 24	10.4	9.9	12.9	14.8	12.9	12.7	9.9	7.0	11.9	13.6	18.8	23.6	24.0	23.0	22.8	17.2	16.6	11.9	12.3	11.6	9.0	9.0	7.2	10.2	7.0	24.0	13.9
Sep 25	9.1	6.9	2.8	5.2	6.7	8.1	9.2	10.3	9.3	12.3	13.9	17.4	18.9	20.1	27.0	21.6	18.9	16.7	16.0	17.8	22.5	21.7	19.9	17.4	2.8	27.0	14.6
Sep 26	14.6	10.2	11.4	10.7	7.1	9.0	8.2	8.8	7.2	8.1	12.1	5.2	7.5	9.5	12.5	12.7	12.9	9.4	6.9	1.3	5.2	6.7	5.5	6.3	1.3	14.6	8.7
Sep 27	8.5	7.8	10.3	6.4	6.9	13.3	12.3	11.3	14.0	14.8	18.5	23.4	20.8	19.6	16.2	14.4	13.9	9.9	8.7	9.1	10.2	10.5	9.4	9.5	6.4	23.4	12.5
Sep 28	10.4	10.7	7.5	9.5	8.7	7.4	7.1	4.7	4.4	6.1	6.4	5.5	5.9	4.7	5.5	6.0	5.3	4.3	8.9	7.8	6.2	6.2	5.0	4.6	4.3	10.7	6.6
Sep 29	5.1	5.0	4.3	3.7	4.4	4.4	4.0	4.6	3.9	6.4	6.6	7.5	6.8	6.2	5.7	4.9	4.7	4.1	3.6	2.7	3.0	2.3	1.8	3.9	1.8	7.5	4.6
Sep 30	3.4	3.2	3.2	6.1	4.7	5.3	5.9	7.0	5.4	5.4	6.9	6.6	6.4	5.4	5.3	8.1	9.6	11.7	11.0	10.8	11.7	12.5	11.4	10.1	3.2	12.5	7.4
Diurnal Maximum	15.7	17.3	20.5	21.9	17.6	19.6	20.9	21.4	19.8	27.2	31.8	31.6	29.4	30.2	27.5	24.5	23.3	21.5	25.8	20.5	24.6	22.4	21.4	17.4			
Diurnal Average	9.4	9.3	9.5	9.3	9.6	9.3	9.4	9.4	10.4	12.0	12.6	13.1	13.2	13.2	12.7	11.9	10.4	9.4	9.7	11.3	10.7	9.9	9.6				

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

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

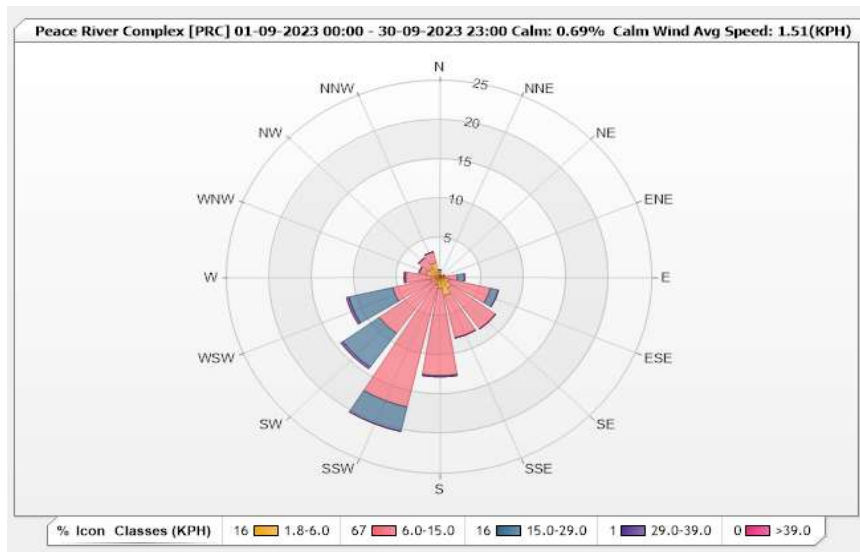


Station: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 09-2023

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

Calm (WS<1.8kph): 0.69% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.69	0.28	0	0	0	0.97
NNE	0	0.28	0	0	0	0.28
NE	0	0.14	0	0	0	0.14
ENE	0.28	0.28	0	0	0	0.56
E	0.28	1.81	0.83	0	0	2.92
ESE	1.11	5	0.97	0	0	7.08
SE	1.67	6.39	0	0	0	8.06
SSE	2.36	5.56	0	0	0	7.92
S	1.39	11.11	0.14	0	0	12.64
SSW	0.97	15.97	3.19	0	0	20.13
SW	0.42	8.33	5.28	0.28	0	14.31
WSW	1.11	4.58	5.28	0.28	0	11.25
W	0.28	3.75	0.14	0	0	4.17
WNW	1.67	0.83	0	0	0	2.5
NW	1.39	1.67	0	0	0	3.06
NNW	1.94	1.39	0	0	0	3.33
Summary	15.56	67.37	15.83	0.56	0	99.32



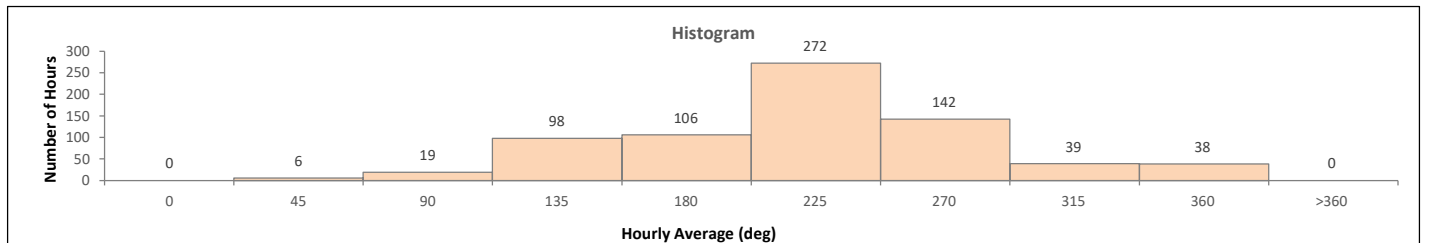
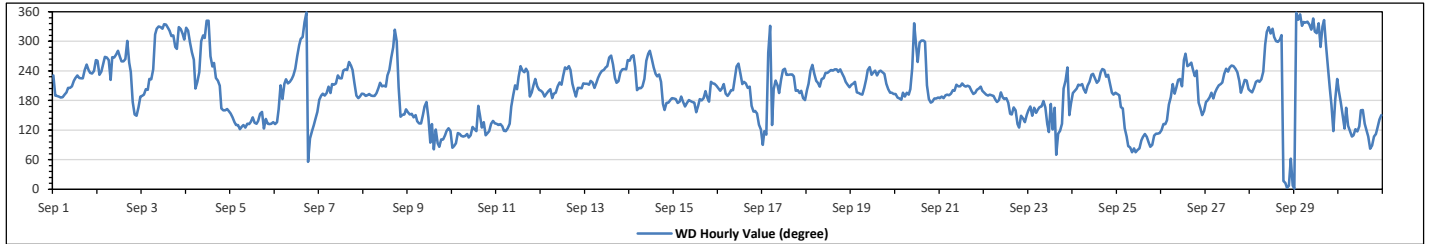
**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**  
**WIND DIRECTION (VWD) in sector**

Monthly Average:	204 (SSW) degree	Hours in Service:	720
		Hours of Data:	720
		Hours of Missing Data:	0
		Hours of Calibration:	0
		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Sep 1	SW	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	WSW	W	224	SW	
Sep 2	W	SW	WSW	WSW	W	W	W	SW	W	W	W	W	W	WSW	WSW	W	WNW	WSW	SW	S	SSE	SSE	SSE	S	248	WSW
Sep 3	S	S	SSW	SSW	SW	SW	WSW	NW	NW	NNW	NNW	NW	NNW	NNW	NW	NW	NNW	NNW	NNW	NW	NW	WNW	WNW	293	WNW	
Sep 4	NNW	NW	WNW	W	W	SSW	SW	SW	WNW	NW	NW	NNW	NNW	W	WSW	WSW	SW	SW	SSW	SSE	SSE	SSE	SSE	240	WSW	
Sep 5	SSE	SE	SE	SE	SE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	ESE	SE	SE	SE	SE	135	SE	
Sep 6	SE	SE	SSE	SSW	S	SSW	SW	SSW	SW	SW	WSW	W	WNW	WNW	NW	NNW	N	NE	ESE	ESE	SE	SE	SE	209	SSW	
Sep 7	S	S	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	S	S	S	SSW	217	SW
Sep 8	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	202	SSW
Sep 9	SSE	SSE	SSE	SE	SSE	SE	SE	SE	SSE	SSE	S	SE	E	SE	E	ESE	E	E	E	E	ESE	ESE	ESE	ESE	122	ESE
Sep 10	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SSE	SSE	SE	SE	ESE	ESE	ESE	SE	SE	119	ESE	
Sep 11	SE	SE	SE	SE	ESE	ESE	ESE	SE	SSE	S	SSW	SSW	SW	WSW	WSW	SW	WSW	SW	S	SSW	SSW	SW	SSW	SSW	192	S
Sep 12	SSW	SSW	S	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	212	SSW
Sep 13	SSW	SSW	SSW	SW	SW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	236	SSW
Sep 14	W	W	W	WSW	SSW	SSW	SSW	SSW	SSW	SW	W	W	W	WSW	SW	SW	SW	SW	S	SSE	S	S	S	S	226	SW
Sep 15	S	S	S	S	S	S	SSE	S	S	S	S	SSE	SSE	S	S	S	SSW	S	S	SSW	S	S	SSW	SSW	185	S
Sep 16	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	SSE	SSE	SE	ESE	202	SSW
Sep 17	E	ESE	ESE	W	NNW	SE	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	213	SSW
Sep 18	SSW	SSW	WSW	WSW	SW	SW	SW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	231	SSW
Sep 19	SSW	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	221	SSW
Sep 20	S	S	S	S	SSW	S	SSW	S	SSW	SSW	NNW	NNW	WSW	NNW	NNW	NNW	NNW	NNW	NNW	SSW	S	S	S	S	202	SSW
Sep 21	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	203	SSW
Sep 22	SSW	S	S	S	S	S	S	S	SSW	S	S	S	S	SSE	SSE	SSE	SSE	SE	SE	SSE	SE	SE	SE	SE	169	SSE
Sep 23	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	ESE	S	ESE	SSE	ENE	ESE	ESE	SE	SSW	SSW	SSW	SSW	SSW	170	SSE
Sep 24	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	219	SSW
Sep 25	S	S	SSE	SSE	ESE	ESE	E	ENE	E	ENE	E	E	E	ESE	ESE	ESE	E	E	E	ESE	ESE	ESE	ESE	ESE	103	ESE
Sep 26	ESE	SE	SE	SE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	202	SSW
Sep 27	S	S	S	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	222	SSW
Sep 28	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	284	WNW
Sep 29	N	N	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	325	NNW
Sep 30	SSW	S	SSE	ESE	SSE	SE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SE	ESE	ESE	ESE	E	E	ESE	ESE	SE	SE	124	ESE	

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

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



**Peace River Area Monitoring Program**  
**Peace River Complex (PRC) Station - September 2023**  
**Summary of Hourly Averages**

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

<b>WIND SPEED</b>			
Maximum Hourly Value:	31.8 kph	on Sep 13 at hr 10	Hours in Service: 720
Maximum Daily Value:	20.1 kph	on Sep 18	Hours of Data: 720
Minimum Hourly Value:	1.3 kph	on Sep 26 at hr 19	Hours of Missing Data: 0
Minimum Daily Value:	4.6 kph	on Sep 29	Hours of Calibration: 0
Monthly Average:	6.9 kph		Operational Uptime: 100.0

<b>WIND DIRECTION</b>			
Monthly Average:	204 degree (SSW)		

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	4.5	7.6	9.5	10.5	9.5	9.0	10.9	12.0	16.6	18.6	22.2	27.0	29.4	30.2	27.5	24.5	23.3	21.1	22.1	20.1	24.2	22.4	21.4	13.3	4.5	30.2	18.2
Sep 2	7.5	8.2	9.2	8.7	9.6	9.5	9.3	8.0	8.9	8.0	11.4	11.9	11.9	12.9	12.7	10.6	6.4	3.6	2.7	6.1	7.1	7.7	9.1	9.7	2.7	12.9	8.8
Sep 3	9.5	9.2	10.1	8.2	8.7	10.4	7.0	3.4	3.9	3.9	6.5	8.4	11.3	13.1	10.6	11.3	9.0	6.9	6.4	5.1	9.5	8.3	5.3	5.5	3.4	13.1	8.0
Sep 4	10.8	7.3	6.5	6.2	6.4	7.3	7.2	2.5	5.2	3.7	6.9	5.6	5.9	5.9	6.6	6.4	8.8	7.6	7.6	10.0	9.8	9.6	9.7	9.7	2.5	10.8	7.1
Sep 5	9.8	10.0	10.6	10.8	11.0	12.4	11.3	11.1	9.5	7.3	10.3	8.8	9.4	11.7	14.9	10.6	8.4	5.2	5.8	5.1	5.9	6.9	6.3	5.1	5.1	14.9	9.1
Sep 6	7.1	5.7	3.7	4.3	3.6	7.2	7.6	6.4	5.3	8.4	8.9	10.0	11.2	9.1	7.8	7.5	5.7	5.8	7.4	8.0	9.5	8.4	6.6	7.4	3.6	11.2	7.2
Sep 7	7.8	9.7	9.8	8.3	9.5	9.5	10.6	10.9	14.1	12.5	11.9	12.0	14.1	18.3	16.0	12.6	12.8	15.3	10.3	8.9	9.3	9.6	11.0	10.3	7.8	18.3	11.5
Sep 8	9.8	9.8	10.2	11.2	9.7	9.5	9.2	10.3	11.6	13.3	12.6	12.3	12.7	10.4	8.4	5.9	1.7	3.6	3.3	1.4	5.6	5.6	5.4	5.7	1.4	13.3	8.3
Sep 9	5.2	6.4	6.5	6.3	6.5	5.8	7.0	5.6	1.4	2.2	3.8	3.6	5.6	3.9	4.4	5.7	9.4	11.4	10.5	10.9	10.7	8.6	10.1	9.7	1.4	11.4	6.7
Sep 10	8.1	7.7	9.0	9.4	10.1	8.1	8.3	9.4	7.2	7.0	6.1	9.9	10.9	8.7	8.5	8.5	9.6	9.9	12.1	12.6	12.8	13.9	13.1	12.3	6.1	13.9	9.7
Sep 11	13.0	11.2	10.0	7.0	10.7	9.0	6.5	10.3	9.2	12.2	10.6	10.2	10.3	13.1	13.3	15.1	12.6	6.8	5.7	9.8	12.3	11.8	10.4	10.4	5.7	15.1	10.5
Sep 12	11.7	10.0	9.2	11.2	12.3	13.2	8.2	11.7	11.1	12.4	12.1	10.6	11.2	14.0	15.9	15.2	10.0	7.3	6.6	8.4	12.3	10.7	12.3	15.5	6.6	15.9	11.4
Sep 13	14.8	17.3	16.7	17.5	15.6	14.7	15.4	17.0	19.8	27.2	31.8	31.6	28.0	22.0	13.8	14.8	9.5	10.7	9.4	11.1	11.5	12.4	10.9	9.3	9.3	31.8	16.8
Sep 14	8.7	10.2	9.8	8.4	11.0	11.5	10.7	8.5	9.1	9.7	10.6	9.8	10.9	11.5	12.3	13.3	14.2	11.2	6.1	9.4	9.7	10.7	8.5	9.8	6.1	14.2	10.2
Sep 15	10.2	9.8	8.4	9.1	9.9	8.2	8.5	8.7	7.8	8.3	9.1	10.0	10.4	12.4	14.7	14.5	15.5	18.1	9.7	9.0	10.1	7.9	9.8	9.2	7.8	18.1	10.4
Sep 16	10.2	10.9	10.9	11.2	11.0	9.3	13.3	12.6	11.0	12.6	16.0	13.4	13.0	15.2	15.8	15.4	13.1	8.9	6.4	8.8	11.2	10.4	6.6	11.0	6.4	16.0	11.6
Sep 17	10.2	10.4	10.8	1.8	2.8	4.1	9.2	11.9	9.3	4.2	11.3	16.5	20.0	16.5	17.8	21.0	20.8	15.2	10.8	13.0	11.6	12.0	8.7	7.7	1.8	21.0	11.6
Sep 18	10.3	12.7	20.5	21.9	17.6	19.6	20.9	21.4	18.5	19.8	22.7	23.8	23.9	23.6	24.7	23.0	23.0	21.5	25.8	20.5	17.3	16.6	16.4	15.5	10.3	25.8	20.1
Sep 19	15.7	16.0	14.7	11.7	11.7	13.2	9.3	12.3	14.0	16.1	16.2	17.1	16.6	15.2	16.4	16.5	17.5	14.2	9.0	9.0	9.9	11.1	10.2	9.0	9.0	17.5	13.4
Sep 20	7.9	7.7	7.1	7.9	7.7	7.8	6.3	7.0	5.3	4.5	3.3	2.9	2.6	3.1	5.9	6.4	3.2	1.9	5.1	7.3	8.7	9.8	9.7	9.8	1.9	9.8	6.2
Sep 21	9.4	9.3	9.2	10.9	11.4	12.0	11.9	16.3	16.4	20.9	22.0	21.2	20.7	23.1	21.9	22.6	21.5	18.3	14.3	12.7	15.5	15.6	14.9	10.3	9.2	23.1	15.9
Sep 22	10.2	11.2	10.6	11.0	11.2	10.0	7.5	6.2	6.5	10.2	8.7	8.3	9.8	9.3	9.8	11.6	13.7	11.3	11.2	11.5	10.6	10.4	13.2	11.5	6.2	13.7	10.2
Sep 23	8.6	6.8	9.6	7.9	8.6	7.8	6.2	5.3	5.5	2.4	2.1	5.1	1.9	3.0	3.2	3.6	7.9	7.0	6.7	14.3	24.6	10.9	6.5	8.1	1.9	24.6	7.2
Sep 24	10.4	9.9	12.9	14.8	12.9	12.7	9.9	7.0	11.9	13.6	18.8	23.6	24.0	23.0	22.8	17.2	16.6	11.9	12.3	11.6	9.0	9.0	7.2	10.2	7.0	24.0	13.9
Sep 25	9.1	6.9	2.8	5.2	6.7	8.1	9.2	10.3	9.3	12.3	13.9	17.4	18.9	20.1	27.0	21.6	18.9	16.7	16.0	17.8	22.5	21.7	19.9	17.4	2.8	27.0	14.6
Sep 26	14.6	10.2	11.4	10.7	7.1	9.0	8.2	8.8	7.2	8.1	12.1	5.2	7.5	9.5	12.5	12.7	12.9	9.4	6.9	1.3	5.2	6.7	5.5	6.3	1.3	14.6	8.7
Sep 27	8.5	7.8	10.3	6.4	6.9	13.3	12.3	11.3	14.0	14.8	18.5	23.4	20.8	19.6	16.2	14.4	13.9	9.9	8.7	9.1	10.2	10.5	9.4	9.5	6.4	23.4	12.5
Sep 28	10.4	10.7	7.5	9.5	8.7	7.4	7.1	4.7	4.4	6.1	6.4	5.5	5.9	4.7	5.5	6.0	5.3	4.3	8.9	7.8	6.2	6.2	5.0	4.6	4.3	10.7	6.6
Sep 29	5.1	5.0	4.3	3.7	4.4	4.4	4.0	4.6	3.9	6.4	6.6	7.5	6.8	6.2	5.7	4.9	4.7	4.1	3.6	2.7	3.0	2.3	1.8	3.9	1.8	7.5	4.6
Sep 30	3.4	3.2	3.2	6.1	4.7	5.3	5.9	7.0	5.4	5.4	6.9	6.6	6.4	5.4	5.3	8.1	9.6	11.7	11.0	10.8	11.7	12.5	11.4	10.1	3.2	12.5	7.4

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

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

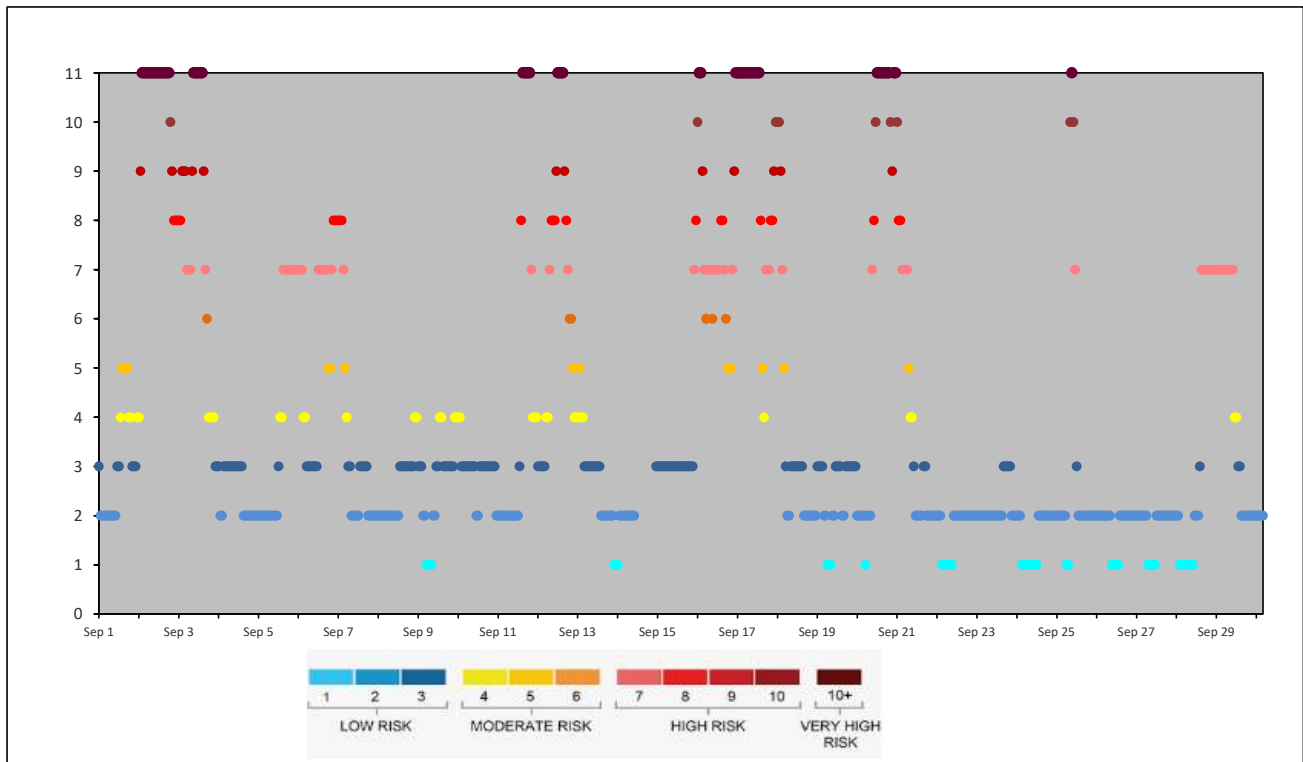
## AQHI GRIMSHAW STATION

# LAKELAND INDUSTRY & COMMUNITY ASSOCIATION

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



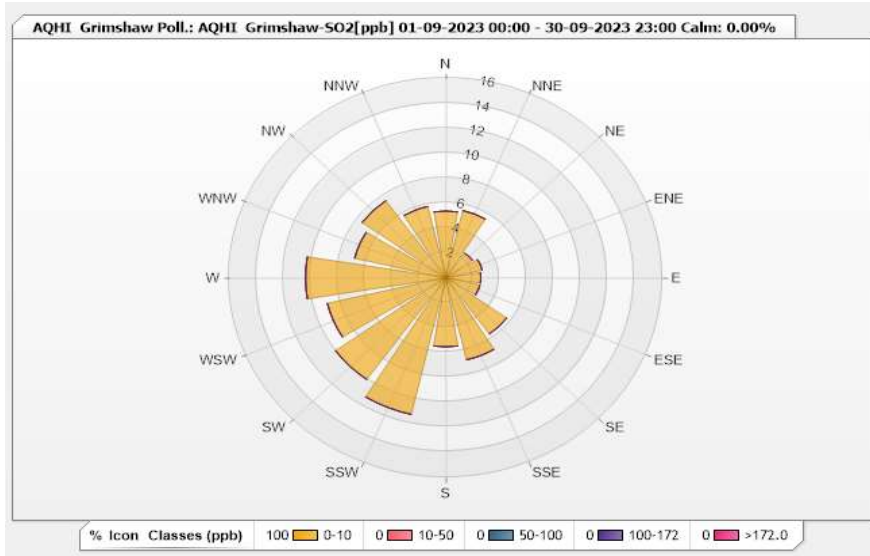


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 80.42%      Calm Avg: 0.00 [ppm]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	5.35	0	0	0	0	5.35
NNE	5.53	0	0	0	0	5.53
NE	2.42	0	0	0	0	2.42
ENE	2.76	0	0	0	0	2.76
E	2.59	0	0	0	0	2.59
ESE	2.59	0	0	0	0	2.59
SE	5.53	0	0	0	0	5.53
SSE	6.74	0	0	0	0	6.74
S	5.53	0	0	0	0	5.53
SSW	11.23	0	0	0	0	11.23
SW	10.02	0	0	0	0	10.02
WSW	8.98	0	0	0	0	8.98
W	10.36	0	0	0	0	10.36
WNW	6.91	0	0	0	0	6.91
NW	7.6	0	0	0	0	7.6
NNW	5.87	0	0	0	0	5.87
Summary	100	0	0	0	0	100





**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL REDUCED SULPHUR (TRS) in ppb**

Maximum Hourly Value:	6.72 ppb	on Sep 30 at hr 3	Hours in Service:	720
Maximum Daily Value:	1.79 ppb	on Sep 30	Hours of Data:	568
Minimum Hourly Value:	0.00 ppb	on Sep 9 at hr 18	Hours of Missing Data:	121
Minimum Daily Value:	0.10 ppb	on Sep 19	Hours of Calibration:	31
Monthly Average:	0.41 ppb		Operational Uptime:	83.2

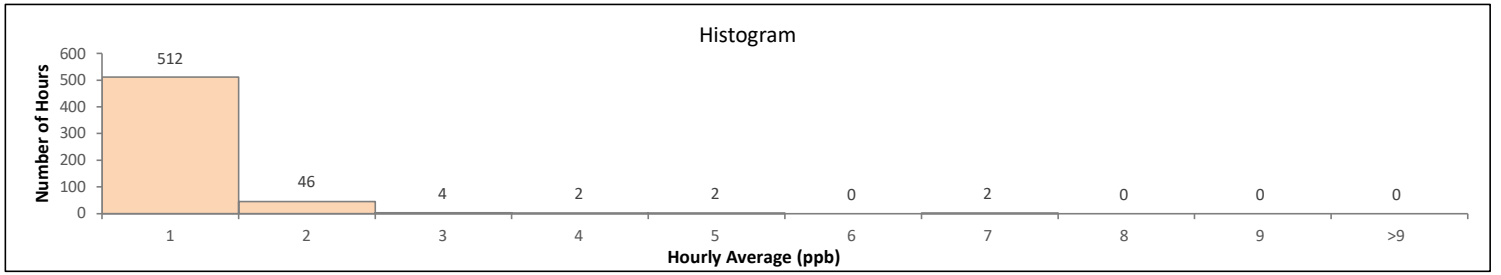
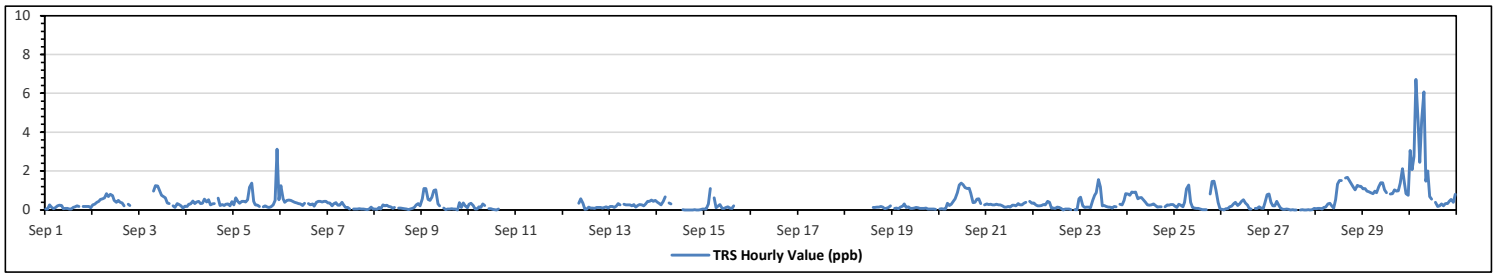
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23		
Sep 1	0.05	0.05	0.27	0.13	0.06	0.13	0.22	0.24	0.23	0.06	0.07	0.07	0.05	0.05	0.13	0.16	0.2	0.17	S	0.18	0.18	0.18	0.18	0.11	0.05	0.27	0.14		
Sep 2	0.26	0.29	0.39	0.45	0.54	0.57	0.62	0.83	0.69	0.79	0.73	0.48	0.39	0.49	0.38	0.35	0.2	S	0.29	0.23	X	X	X	X	0.20	0.83	0.47		
Sep 3	X	X	X	X	X	X	NRM	0.97	1.24	1.23	1.04	0.75	0.68	0.62	0.36	0.33	S	0.2	0.12	0.32	0.28	0.21	0.09	0.19	0.09	1.24	NA		
Sep 4	0.18	0.29	0.31	0.46	0.33	0.41	0.44	0.32	0.34	0.55	0.41	0.52	0.25	0.31	0.32	S	0.6	0.23	0.28	0.23	0.29	0.31	0.21	0.42	0.18	0.60	0.35		
Sep 5	0.27	0.61	0.42	0.34	0.43	0.43	0.41	0.53	1.17	1.37	0.45	0.26	0.24	0.17	S	0.16	0.2	0.15	0.13	0.16	0.25	0.48	3.13	0.53	0.13	3.13	0.53		
Sep 6	1.25	0.56	0.39	0.48	0.5	0.48	0.45	0.38	0.36	0.33	0.3	0.23	0.34	S	0.32	0.26	0.31	0.19	0.39	0.44	0.44	0.41	0.44	0.43	0.19	1.25	0.42		
Sep 7	0.35	0.36	0.22	0.32	0.37	0.24	0.24	0.38	0.26	0.13	0.12	0.03	S	0.04	0.03	0.03	0.06	0.03	0.04	0.02	0.01	0.04	0.14	0.05	0.01	0.38	0.15		
Sep 8	0.03	0.02	0.13	0.04	0.25	0.21	0.24	0.17	0.16	0.07	0.12	S	0.09	0.09	0.08	0.06	0.05	0.01	0.05	0.08	0.12	0.26	0.32	0.22	0.01	0.32	0.12		
Sep 9	0.57	1.11	1.11	0.54	0.49	0.66	1	1.03	0.31	0.21	S	0.09	0.01	0.03	0.03	0.06	0.03	0.03	0	0.37	0.12	0.35	0.21	0.11	0.00	1.11	0.37		
Sep 10	0.29	0.34	0.23	0.03	0.05	0.16	0.13	0.31	0.23	S	0.06	0.06	0.02	0.01	0	0.05	X	X	X	X	X	X	X	X	0.00	0.34	NA		
Sep 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Sep 12	X	X	X	X	X	X	X	X	X	0.34	0.57	0.34	0.02	0.04	0.14	0.09	0.09	0.08	0.13	0.12	0.09	0.12	0.16	0.1	0.02	0.57	NA		
Sep 13	0.17	0.18	0.13	0.19	0.32	0.27	S	0.29	0.25	0.27	0.26	0.2	0.28	0.14	0.23	0.28	0.26	0.22	0.3	0.44	0.43	0.5	0.45	0.48	0.13	0.50	0.28		
Sep 14	0.39	0.33	0.25	0.45	0.67	S	0.35	0.31	C	C	C	C	C	C	0.01	0	0	0	0	0	0.01	0	0	0.01	0.03	0.00	0.67	0.16	
Sep 15	0.04	0.04	0.3	1.11	S	0.62	0.11	0.22	0.28	0.07	0.08	0.12	0.16	0.1	0.07	0.2	X	X	X	X	X	X	X	X	0.04	1.11	NA		
Sep 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Sep 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Sep 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0.12	0.12	0.14	0.15	0.18	0.15	0.06	0.09	0.13	0.2	0.06	0.20	NA
Sep 19	S	0.07	0.09	0.06	0.15	0.19	0.3	0.12	0.16	0.07	0.08	0.1	0.13	0.11	0.08	0.08	0.07	0.1	0.05	0.05	0.04	0.03	0.02	S	0.02	0.30	0.10		
Sep 20	0.05	0.06	0.05	0.04	0.34	0.23	0.29	0.46	0.56	0.89	1.27	1.37	1.3	1.16	1.09	1.12	0.85	0.37	0.38	0.55	0.56	0.32	S	0.26	0.04	1.37	0.59		
Sep 21	0.31	0.28	0.29	0.26	0.25	0.29	0.26	0.25	0.21	0.15	0.15	0.18	0.15	0.24	0.24	0.22	0.32	0.27	0.26	0.34	0.39	S	0.45	0.34	0.15	0.45	0.27		
Sep 22	0.35	0.25	0.2	0.2	0.23	0.28	0.27	0.45	0.39	0.09	0.09	0.07	0.15	0.13	0.07	0	0.04	0.04	0.03	0.01	S	0.01	0.01	0.57	0.00	0.57	0.17		
Sep 23	0.66	0.2	0.13	0.14	0.15	0.11	0.49	0.75	0.89	1.55	1.18	0.21	0.23	0.18	0.15	0.14	0.09	0.18	0.16	S	0.29	0.25	0.48	0.83	0.09	1.55	0.41		
Sep 24	0.82	0.75	0.91	0.9	0.91	0.56	0.62	0.64	0.5	0.38	0.25	0.24	0.26	0.3	0.24	0.15	0.16	0.16	S	0.16	0.25	0.24	0.28	0.28	0.15	0.91	0.43		
Sep 25	0.19	0.13	0.29	0.24	0.16	0.4	1.08	1.29	0.38	0.12	0.09	0.08	0.08	0.04	0.01	0.01	S	0.82	1.46	1.48	1.04	0.37	0.03	0.01	1.48	0.43	0.01		
Sep 26	0.02	0	0.06	0.06	0.16	0.19	0.32	0.4	0.23	0.31	0.45	0.53	0.35	0.24	0.05	0.05	S	0.07	0.07	0.16	0.1	0.08	0.35	0.78	0.00	0.78	0.22		
Sep 27	0.82	0.38	0.22	0.21	0.45	0.23	0.1	0.02	0.02	0.04	0.02	0	0.01	0	0	S	0	0.01	0	0	0.01	0	0.01	0.08	0.00	0.82	0.11		
Sep 28	0.06	0.08	0.07	0.03	0.13	0.15	0.3	0.34	0.21	0.09	0.52	1.32	1.5	1.52	S	1.65	1.67	1.52	1.35	1.18	1.03	1.26	1.22	1.21	0.03	1.67	0.80		
Sep 29	1.08	1.11	0.96	0.93	0.89	0.83	0.96	0.88	1.19	1.39	1.39	1.03	0.88	S	0.82	0.83	1.03	0.98	0.99	1.37	2.12	1.4	0.83	0.75	0.75	2.12	1.07		
Sep 30	3.07	2.07	2.75	6.72	4.49	2.44	4.62	6.08	1.48	2	0.68	0.55	S	0.38	0.18	0.21	0.31	0.21	0.32	0.33	0.44	0.54	0.39	0.8	0.18	6.72	1.79		
Diurnal Maximum	3.07	2.07	2.75	6.72	4.49	2.44	4.62	6.08	1.48	2.00	1.39	1.37	1.50	1.52	1.09	1.65	1.67	1.52	1.35	1.46	2.12	1.40	3.13	1.21					
Diurnal Average	0.49	0.40	0.42	0.60	0.54	0.44	0.60	0.71	0.48	0.53	0.42	0.35	0.33	0.27	0.20	0.26	0.29	0.24	0.28	0.35	0.39	0.35	0.43	0.38					

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

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

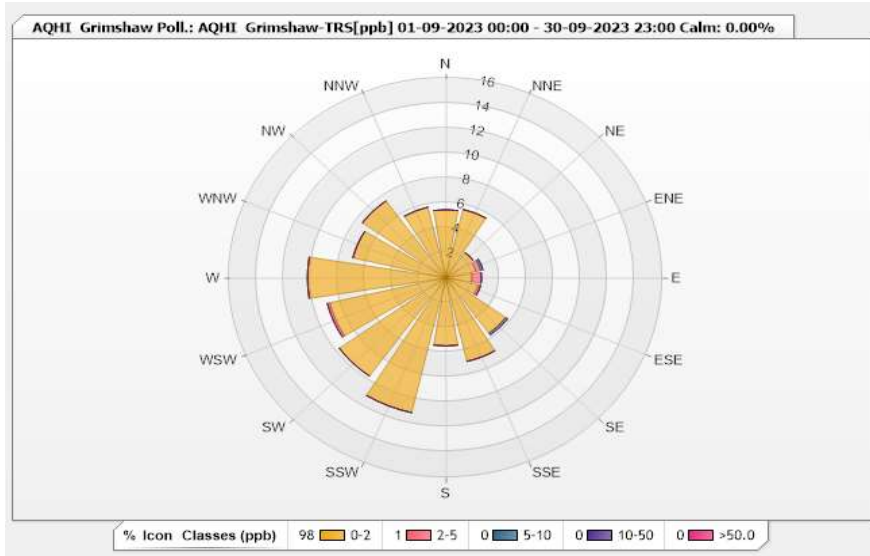


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 78.89%      Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	5.46	0	0	0	0	5.46
NNE	5.63	0	0	0	0	5.63
NE	2.46	0	0	0	0	2.46
ENE	2.29	0.35	0.18	0	0	2.82
E	1.94	0.7	0	0	0	2.64
ESE	2.46	0.18	0	0	0	2.64
SE	5.46	0	0.18	0	0	5.64
SSE	6.87	0	0	0	0	6.87
S	5.46	0	0	0	0	5.46
SSW	11.09	0	0	0	0	11.09
SW	9.68	0	0	0	0	9.68
WSW	8.8	0.18	0	0	0	8.98
W	10.21	0	0	0	0	10.21
WNW	7.04	0	0	0	0	7.04
NW	7.57	0	0	0	0	7.57
NNW	5.81	0	0	0	0	5.81
Summary	98.23	1.41	0.36	0	0	100



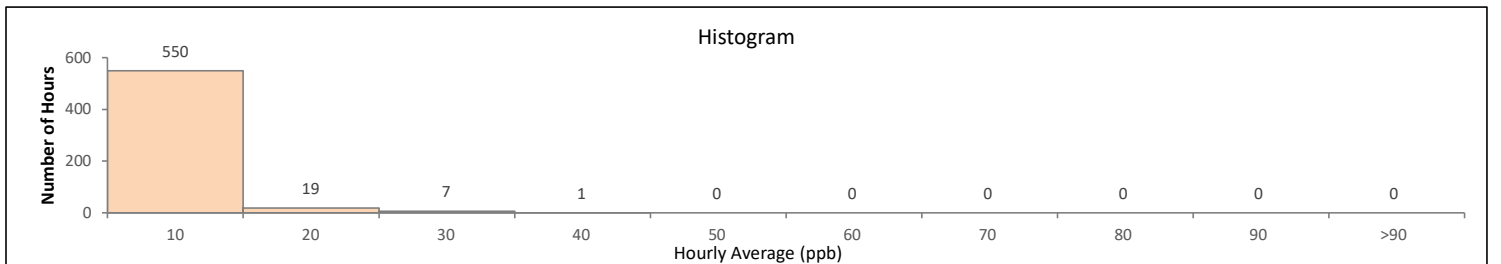
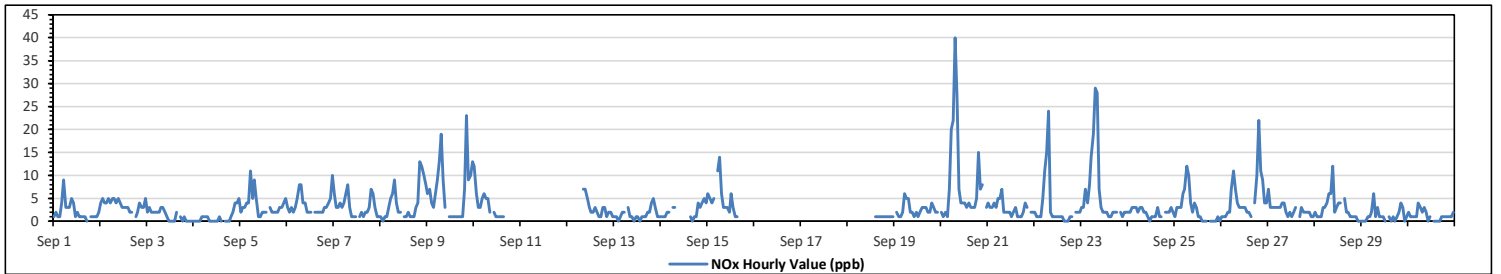
**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**OXIDES OF NITROGEN (NOx) in ppb**

Maximum Hourly Value:	40	ppb	on Sep 20 at hr 7	Hours in Service:	720
Maximum Daily Value:	8.5	ppb	on Sep 20	Hours of Data:	577
Minimum Hourly Value:	0	ppb	on Sep 1 at hr 17	Hours of Missing Data:	110
Minimum Daily Value:	0.9	ppb	on Sep 4	Hours of Calibration:	33
Monthly Average:	3.2	ppb		Operational Uptime:	84.7

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	1	2	1	1	4	9	3	3	3	5	4	1	2	1	1	1	1	0	S	1	1	1	1	2	0	9	2.1	
Sep 2	4	5	4	4	5	4	5	5	4	5	4	3	3	3	2	2	S	1	2	4	3	3	5	1	5	3.6		
Sep 3	2	3	2	2	2	2	2	3	3	2	1	0	0	0	0	0	S	1	0	1	0	0	0	0	0	3	1.2	
Sep 4	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	S	0	0	0	1	2	4	4	5	0	5	0.9	
Sep 5	2	3	3	4	4	11	5	9	5	1	1	2	2	2	S	3	2	2	2	2	3	3	4	5	1	11	3.5	
Sep 6	3	2	3	2	3	5	8	8	4	4	2	2	S	S	2	2	2	2	2	3	3	4	5	10	2	10	3.6	
Sep 7	6	3	3	4	3	4	6	8	3	1	1	1	S	1	2	1	2	2	2	3	7	6	3	1	1	8	3.1	
Sep 8	1	0	1	1	3	5	6	9	4	2	2	S	1	1	2	1	1	1	3	4	13	12	10	8	0	13	4.0	
Sep 9	6	7	4	3	6	9	13	19	9	3	S	1	1	1	1	1	1	1	1	7	23	9	10	13	1	23	6.5	
Sep 10	12	6	3	3	5	6	5	5	2	S	2	1	1	1	1	1	X	X	X	X	X	X	X	X	1	12	NA	
Sep 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 12	X	X	X	X	X	X	X	X	7	7	5	3	2	2	3	2	1	1	3	3	1	2	2	1	1	7	NA	
Sep 13	1	1	0	1	2	2	S	3	1	1	0	1	1	0	1	1	1	2	2	4	5	3	1	1	0	5	1.5	
Sep 14	1	1	1	2	2	S	3	3	C	C	C	C	C	C	C	1	0	1	1	4	3	4	5	4	0	5	NA	
Sep 15	6	5	4	5	S	11	14	6	3	3	3	2	6	3	1	1	X	X	X	X	X	X	X	X	1	14	NA	
Sep 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	1	1	1	1	1	1	1	1	1	1	NA
Sep 19	S	2	1	1	2	6	5	5	2	2	1	2	1	2	3	3	3	2	2	4	3	2	2	S	1	6	2.5	
Sep 20	2	1	2	1	7	20	22	40	27	7	4	4	4	3	4	3	3	3	5	15	7	8	S	3	1	40	8.5	
Sep 21	4	3	3	4	3	5	5	7	2	2	2	2	1	2	3	1	1	1	2	4	3	S	2	2	1	7	2.8	
Sep 22	2	1	1	1	5	11	15	24	2	1	1	1	1	1	1	0	0	0	1	1	S	2	2	2	0	24	3.3	
Sep 23	3	3	7	4	8	14	19	29	28	7	3	2	2	2	1	1	2	2	2	S	2	1	2	2	1	29	6.3	
Sep 24	2	2	3	3	3	2	3	3	2	2	1	0	1	1	1	3	1	1	S	2	2	2	3	2	0	3	2.0	
Sep 25	1	3	3	3	6	7	12	10	4	2	4	3	1	1	0	0	0	S	0	0	0	0	1	0	0	12	2.7	
Sep 26	1	1	1	2	2	7	11	7	4	3	3	3	3	2	2	1	S	4	10	22	11	9	4	4	1	22	5.1	
Sep 27	7	3	3	3	3	3	3	4	4	2	1	2	1	2	3	S	1	3	2	2	2	2	1	1	1	7	2.5	
Sep 28	2	1	1	1	3	3	4	6	6	12	2	3	4	4	S	5	2	2	1	1	1	1	0	0	0	12	2.8	
Sep 29	0	0	0	1	1	2	6	1	3	1	1	1	0	S	1	0	1	0	1	2	4	3	0	1	0	6	1.3	
Sep 30	2	1	1	1	1	4	3	2	3	2	0	1	S	0	0	0	0	1	1	1	1	1	1	2	0	4	1.3	
Diurnal Maximum	12	7	7	5	8	20	22	40	28	12	5	4	6	4	4	5	3	4	10	22	23	12	10	13				
Diurnal Average	3.0	2.4	2.2	2.3	3.5	6.4	7.5	8.8	5.4	3.2	2.0	1.7	1.7	1.6	1.5	1.5	1.2	1.4	2.0	3.9	4.2	3.3	2.7	3.1				

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

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

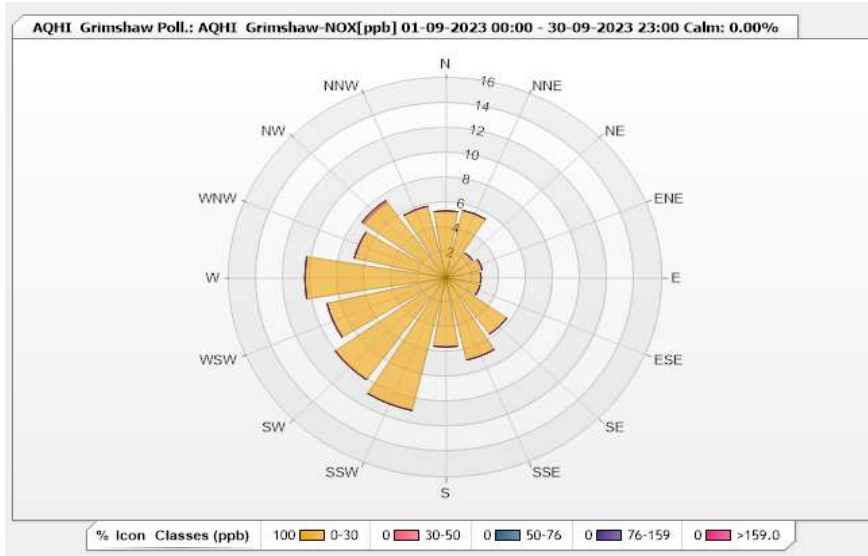


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 80.14%      Calm Avg: 0.00 [ppm]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	5.37	0	0	0	0	5.37
NNE	5.55	0	0	0	0	5.55
NE	2.43	0	0	0	0	2.43
ENE	2.77	0	0	0	0	2.77
E	2.6	0	0	0	0	2.6
ESE	2.6	0	0	0	0	2.6
SE	5.55	0	0	0	0	5.55
SSE	6.76	0	0	0	0	6.76
S	5.55	0	0	0	0	5.55
SSW	10.92	0	0	0	0	10.92
SW	10.05	0	0	0	0	10.05
WSW	9.01	0	0	0	0	9.01
W	10.4	0	0	0	0	10.4
WNW	6.93	0	0	0	0	6.93
NW	7.45	0.17	0	0	0	7.62
NNW	5.89	0	0	0	0	5.89
Summary	100	0.17	0	0	0	100



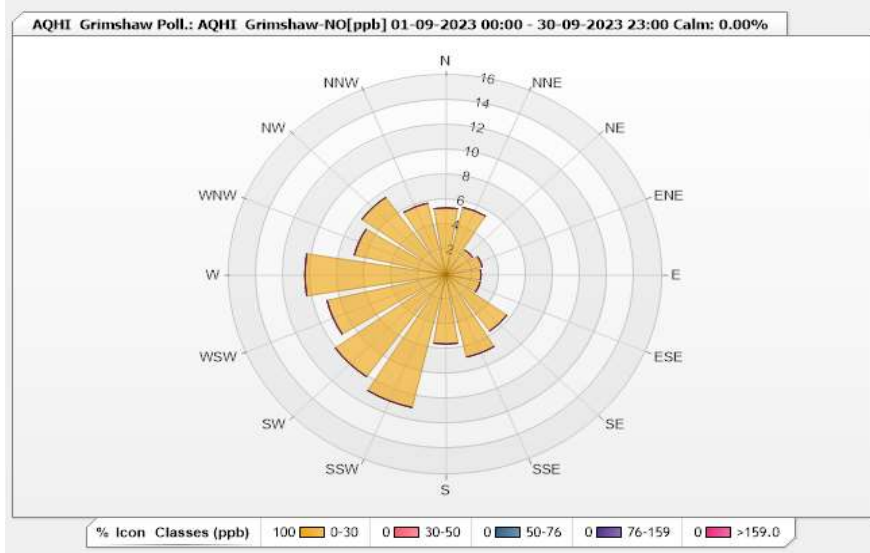


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 80.14%      Calm Avg: 0.00 [ppm]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	5.37	0	0	0	0	5.37
NNE	5.55	0	0	0	0	5.55
NE	2.43	0	0	0	0	2.43
ENE	2.77	0	0	0	0	2.77
E	2.6	0	0	0	0	2.6
ESE	2.6	0	0	0	0	2.6
SE	5.55	0	0	0	0	5.55
SSE	6.76	0	0	0	0	6.76
S	5.55	0	0	0	0	5.55
SSW	10.92	0	0	0	0	10.92
SW	10.05	0	0	0	0	10.05
WSW	9.01	0	0	0	0	9.01
W	10.4	0	0	0	0	10.4
WNW	6.93	0	0	0	0	6.93
NW	7.63	0	0	0	0	7.63
NNW	5.89	0	0	0	0	5.89
Summary	100	0	0	0	0	100

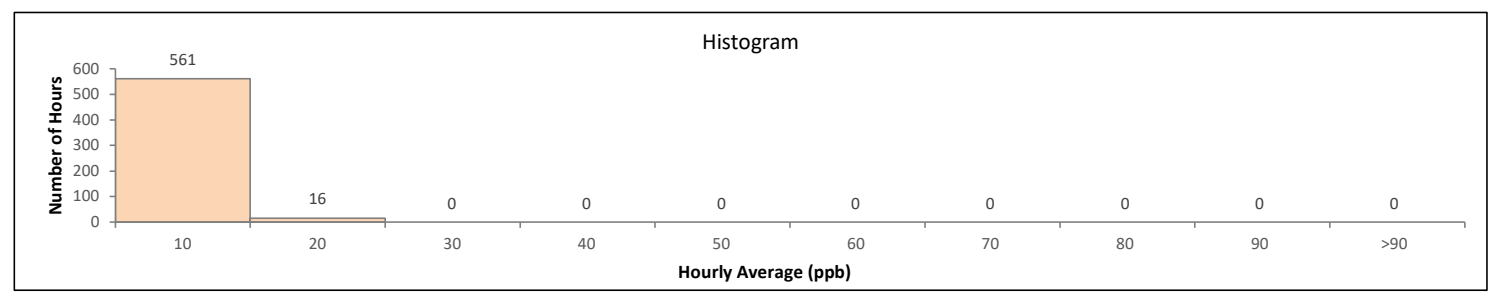
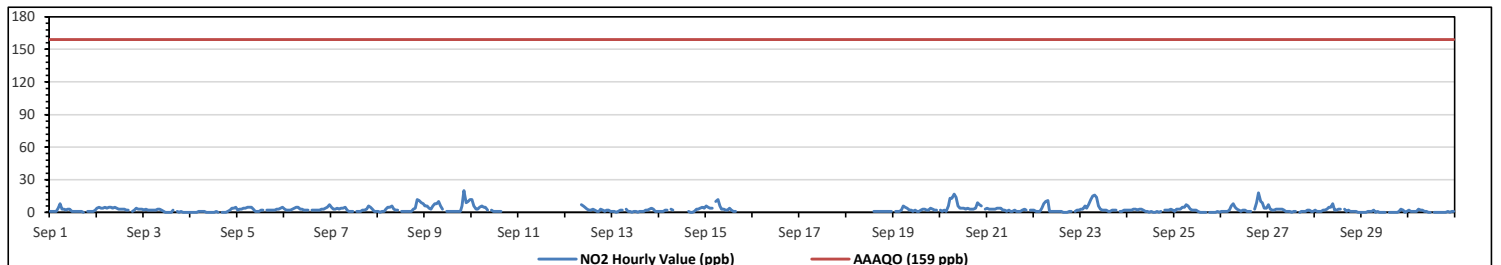


**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**NITROGEN DIOXIDE (NO<sub>2</sub>) in ppb**

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 159 ppb																												
Number of 1-Hour Exceedances: 0																												
Maximum Hourly Value: 20 ppb on Sep 9 at hr 20												Hours in Service: 720																
Maximum Daily Value: 5.7 ppb on Sep 20												Hours of Data: 577																
Minimum Hourly Value: 0 ppb on Sep 1 at hr 17												Hours of Missing Data: 110																
Minimum Daily Value: 0.6 ppb on Sep 29												Hours of Calibration: 33																
Monthly Average: 2.6 ppb												Operational Uptime: 84.7																
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	1	1	1	1	4	8	3	3	2	3	3	1	1	1	1	1	0	S	1	1	1	1	2	0	8	1.8		
Sep 2	4	5	4	4	5	4	5	5	4	5	4	3	3	3	3	2	2	S	1	2	4	3	3	3	1	5	3.5	
Sep 3	2	3	2	2	2	2	2	3	3	2	1	0	0	0	0	0	2	S	1	0	1	0	0	0	0	3	1.2	
Sep 4	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	S	0	0	0	1	2	4	4	5	0	5	0.9	
Sep 5	2	3	3	4	4	5	5	5	3	1	1	1	2	2	2	S	2	2	2	2	3	3	4	5	1	5	2.9	
Sep 6	3	2	2	2	3	4	5	5	3	3	2	2	2	2	S	2	2	2	2	3	3	4	5	7	2	7	3.0	
Sep 7	5	3	3	4	3	4	4	5	2	1	1	1	S	1	1	1	2	2	3	6	5	3	1	1	1	6	2.7	
Sep 8	1	0	1	1	3	5	5	6	3	2	2	S	1	1	1	1	1	1	3	4	12	11	9	8	0	12	3.6	
Sep 9	6	6	4	3	6	8	8	10	6	3	S	1	1	1	1	1	1	1	1	6	20	9	10	12	1	20	5.4	
Sep 10	12	6	3	3	5	6	5	5	2	S	2	1	1	1	1	1	1	X	X	X	X	X	X	X	1	12	NA	
Sep 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 12	X	X	X	X	X	X	X	X	7	6	5	3	2	2	3	2	1	1	3	2	1	2	2	1	1	7	7	NA
Sep 13	1	1	0	1	2	2	S	3	1	1	0	1	1	0	1	1	1	2	2	3	4	3	1	1	0	4	1.4	
Sep 14	1	1	1	2	2	S	3	2	C	C	C	C	C	C	C	1	0	0	1	3	3	4	5	4	0	5	NA	
Sep 15	6	5	4	4	S	10	12	6	3	3	2	2	4	2	1	1	X	X	X	X	X	X	X	X	1	12	NA	
Sep 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	1	1	1	1	1	1	1	1	1	1	NA
Sep 19	S	1	1	1	2	6	5	4	2	2	1	2	1	1	2	3	3	2	2	4	3	2	2	S	1	6	2.4	
Sep 20	2	1	2	1	6	13	13	17	14	6	4	4	4	3	4	3	3	3	2	4	9	7	6	S	3	17	5.7	
Sep 21	4	3	3	3	3	4	4	4	2	2	1	2	1	2	1	1	1	2	3	2	S	S	2	2	1	4	2.3	
Sep 22	2	1	1	1	4	8	10	11	1	1	1	1	1	1	1	0	0	1	1	1	S	1	2	2	0	11	2.3	
Sep 23	3	3	6	4	7	12	15	16	14	6	3	2	2	2	1	1	2	2	2	S	1	1	2	2	1	16	4.7	
Sep 24	2	2	2	3	3	2	3	3	2	1	1	0	1	0	0	1	0	1	S	2	2	2	3	2	0	3	1.7	
Sep 25	1	3	3	3	5	5	7	6	3	2	2	2	1	0	0	0	0	S	0	0	0	0	1	0	0	7	1.9	
Sep 26	1	1	1	1	2	6	8	5	3	2	1	2	2	1	1	1	S	3	9	18	10	9	4	4	1	18	4.1	
Sep 27	7	3	2	2	3	3	3	3	2	1	1	1	0	1	1	S	0	1	1	1	2	2	1	1	0	7	1.8	
Sep 28	2	1	1	1	2	2	3	5	5	8	2	2	3	3	S	3	1	2	1	1	1	1	0	0	0	8	2.2	
Sep 29	0	0	0	1	1	1	2	0	1	0	0	0	0	0	S	0	0	0	0	1	3	2	0	1	0	3	0.6	
Sep 30	2	1	1	1	1	3	2	2	1	1	0	0	S	0	0	0	0	0	0	0	1	0	1	1	0	3	0.8	
Diurnal Maximum	12	6	6	4	7	13	15	17	14	8	5	4	4	4	3	3	3	3	9	18	20	11	10	12				
Diurnal Average	2.9	2.2	2.0	2.1	3.3	5.2	5.5	5.4	3.6	2.6	1.7	1.4	1.5	1.2	1.2	1.3	1.0	1.2	1.8	3.1	3.8	3.1	2.7	2.8				

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

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

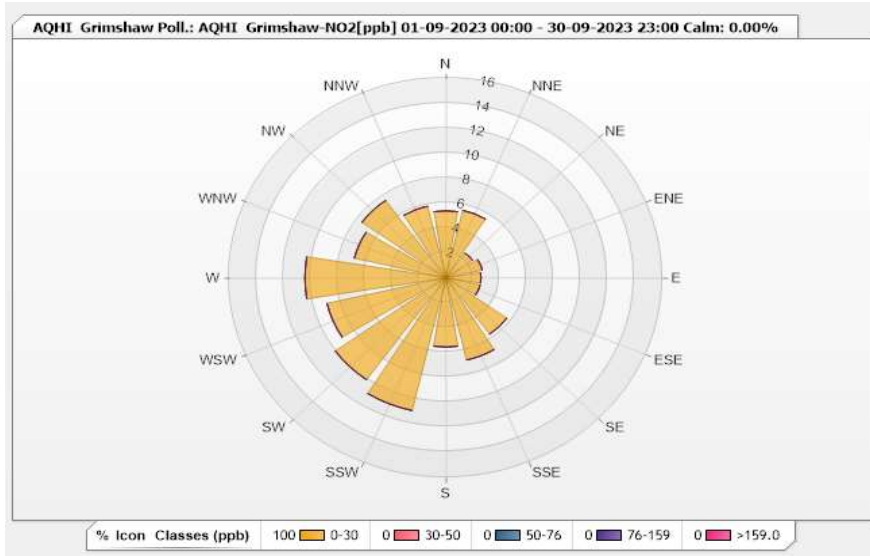


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 80.14%      Calm Avg: 0.00 [ppm]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	5.37	0	0	0	0	5.37
NNE	5.55	0	0	0	0	5.55
NE	2.43	0	0	0	0	2.43
ENE	2.77	0	0	0	0	2.77
E	2.6	0	0	0	0	2.6
ESE	2.6	0	0	0	0	2.6
SE	5.55	0	0	0	0	5.55
SSE	6.76	0	0	0	0	6.76
S	5.55	0	0	0	0	5.55
SSW	10.92	0	0	0	0	10.92
SW	10.05	0	0	0	0	10.05
WSW	9.01	0	0	0	0	9.01
W	10.4	0	0	0	0	10.4
WNW	6.93	0	0	0	0	6.93
NW	7.63	0	0	0	0	7.63
NNW	5.89	0	0	0	0	5.89
Summary	100	0	0	0	0	100

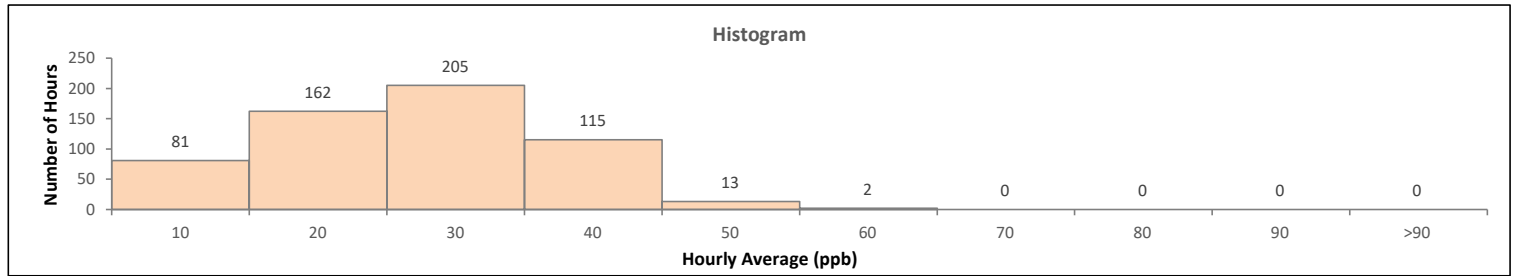
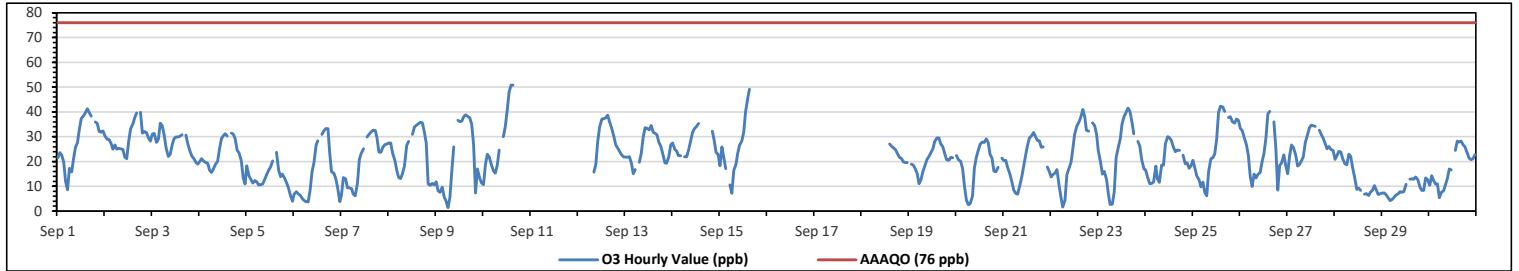




**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**OZONE (O<sub>3</sub>) in ppb**

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 76 ppb																												
Number of 1-Hour Exceedances: 0												Hours in Service: 720																
Maximum Hourly Value: 50.8 ppb on Sep 10 at hr 14												Hours of Data: 578																
Maximum Daily Value: 29.4 ppb on Sep 2												Hours of Missing Data: 110																
Minimum Hourly Value: 1.4 ppb on Sep 9 at hr 6												Hours of Calibration: 32																
Minimum Daily Value: 9.0 ppb on Sep 29												Operational Uptime: 84.7																
Monthly Average: 22.0 ppb																												
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				
Sep 1	21.6	23.6	22.5	19.9	12	8.6	17.3	15.8	21.3	25.8	27.6	33	37.4	38.4	39.7	41.3	39.7	38.3	S	36	35.3	32.1	31.9	32.4	8.6	41.3	28.3	
Sep 2	30.3	29	28.8	27.3	25	26.7	25	25.3	25.1	24.9	21.8	21.2	28	33.1	35	37.7	39.5	S	39.8	31.5	32.1	31.6	29.5	28.3	21.2	39.8	29.4	
Sep 3	31	31.3	27.7	29	35.4	34.4	30.8	25.6	22.1	22.9	26.6	29.2	29.9	30.2	30.8	S	30.7	27	24.4	22.3	21.1	19.7	19	19.0	35.4	27.4		
Sep 4	20	21.2	20.2	19.6	19.3	16.5	15.6	17	18.8	20.1	25.1	29.3	30.5	31.2	30.3	S	31.4	31	29.1	24.6	23.5	20.3	13.4	10.9	10.9	31.4	22.6	
Sep 5	18.3	14.3	12.7	11.4	12.3	11.7	10.5	10.7	10.9	12.8	15	16.6	17.7	20.2	S	23.8	16.4	13.9	14.9	13.5	11.5	9.5	6.2	4	4.0	23.8	13.4	
Sep 6	6.9	7.8	7	6.4	5	4.2	3.9	3.7	8.4	15.7	19.5	26.6	28.4	S	30.9	32.4	33.3	33.2	24	15.8	15.3	13.3	9.5	3.9	3.7	33.3	15.4	
Sep 7	6.5	13.6	13	9.4	9.4	9.1	6.8	6.2	11.2	20.9	23.4	25.1	S	29.9	31.1	32	32.7	32.6	29.6	23.9	23.7	26	26.8	27	6.2	32.7	20.4	
Sep 8	27.5	27.4	23.4	20.4	16.4	13.1	15.2	18.3	26.5	28.2	S	30.9	33.9	34.6	35.3	35.8	35.6	32	27.4	11	10.4	11.3	10.6	10.4	35.8	23.4		
Sep 9	11.8	8.2	7.6	9.6	5.7	4	1.4	5.5	16.3	26	S	36.7	36.1	36.2	38	38.8	38.2	37.6	35.1	26.8	7.3	17	13.3	11.4	1.4	38.8	20.4	
Sep 10	10.7	18.8	22.9	21.8	18.5	16.2	15.3	18.6	24.6	S	30.1	34.1	40.7	48.1	50.8	50.8	X	X	X	X	X	X	X	X	10.7	50.8	NA	
Sep 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 12	X	X	X	X	X	X	X	X	X	15.7	18.9	28.3	34.1	37.1	37.3	37.7	38.7	36	33.7	30.3	26.8	25.5	24.2	22.8	22	15.7	38.7	NA
Sep 13	21.8	21.8	21.9	19.5	15.1	16.8	S	19.8	23.4	29.9	33.7	33.4	32.8	34.6	31.9	31.5	30.8	27.8	26.2	22.7	19.5	19.3	21.9	26.7	15.1	34.6	25.3	
Sep 14	27.5	24.8	24.2	22.4	22.3	S	22	22	24.7	27.6	31.6	33.3	34.1	35.3	C	C	C	C	C	C	32.2	29.1	23.6	22.9	22.0	35.3	NA	
Sep 15	18.3	26	20.8	17.2	S	10.5	7.2	16.3	19	23.1	26.5	28.3	31.7	40.1	45.7	49.1	X	X	X	X	X	X	X	X	7.2	49.1	NA	
Sep 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Sep 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	27	26.2	25.6	24.8	23.4	21.7	21.3	19.9	19.6	19.6	19.6	27.0	NA
Sep 19	S	18.9	18.6	17.2	15.2	11.1	12.6	15.9	18.6	20.9	22.1	23.6	25	28.1	29.5	29.5	27	26.1	23.4	20.7	20.5	21.7	21.5	S	11.1	29.5	21.3	
Sep 20	22.4	20.8	20.1	17.3	10	4.5	2.6	3	6	17.4	21.7	24.4	26.9	27.9	27.8	29.1	27.8	22.8	21.4	16.1	15.8	17.7	S	21.4	2.6	29.1	18.5	
Sep 21	20.3	20.5	17.5	14.9	11.8	8.5	7.2	6.9	9.9	13.7	18.2	22.4	26.5	29.5	30.3	31.7	30	28.5	28.4	25.8	25.9	S	17.8	16	6.9	31.7	20.1	
Sep 22	13.8	14.8	15.4	16.7	10	5.2	1.7	4.4	14.7	17	19.8	25.6	30.8	34.3	35.7	37.7	41	37.9	32.7	32.2	S	35.6	34.4	30.8	1.7	41.0	23.6	
Sep 23	24.5	19.9	15	16	12.7	6.7	2.7	2.9	7.7	21.7	25.9	29.3	34.8	37.9	39.8	41.5	40.3	35.5	31.2	S	28.1	26.2	20.6	17	2.7	41.5	23.4	
Sep 24	16.6	13.7	11.1	11.2	11.7	18.2	13	11.5	18.5	18.6	27.2	30.1	29.7	28.6	25.8	24	24.6	24.5	S	22.5	19.1	19.5	17.3	18.3	11.1	30.1	19.8	
Sep 25	20.4	17.4	14.2	12.6	9.7	11.7	7.6	6.2	15.9	21.1	21.6	23.1	28.9	39.9	42.3	42	40.3	S	37.8	38.1	36.1	35.5	37.1	36.6	6.2	42.3	25.9	
Sep 26	33.4	32.6	29.8	26.8	22.5	14	9.9	15	13.5	14.8	15.6	19.9	23.3	29.4	39.2	40.2	S	36	25.4	8.5	18.4	19.5	22.7	18.3	8.5	40.2	23.0	
Sep 27	15.1	22.2	26.6	25.7	22.6	18.1	18.8	20.2	22.1	27.6	30.8	33.7	34.7	34.5	34.2	S	32.7	30.9	29.4	27.3	25.1	26.1	24.8	24.5	15.1	34.7	26.4	
Sep 28	20.9	22.4	24.1	23.9	21.2	19.1	18.7	22.9	22.1	17.6	13.8	8.8	9.3	8.4	S	6.9	7.1	6.3	7.7	8.3	10.3	8.5	6.7	7.1	6.3	24.1	14.0	
Sep 29	7.3	7.3	6.6	5.3	4.3	4.8	5.6	6.6	7	7.8	7.6	7.8	10.8	S	12.9	13	12.9	13.8	12.6	9.7	8.3	8.3	13.5	12.8	4.3	13.8	9.0	
Sep 30	10.4	14.3	12.3	10.9	11	5.4	7.7	8.1	10.6	13.1	17	16.6	S	24.4	28.3	27.9	28.3	26.8	25.9	23.5	21.4	20.7	21.2	22.7	5.4	28.3	17.8	
Diurnal Maximum	33.4	32.6	29.8	29.0	35.4	34.4	30.8	25.6	25.1	29.9	33.7	36.7	40.7	48.1	50.8	50.8	41.0	38.3	39.8	38.1	36.1	35.6	37.1	36.6				
Diurnal Average	19.1	19.7	18.6	17.3	15.0	12.5	11.5	13.0	16.4	20.3	23.1	25.8	29.0	32.1	33.7	33.0	30.5	28.6	26.7	22.9	21.2	21.4	20.3	19.3				

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

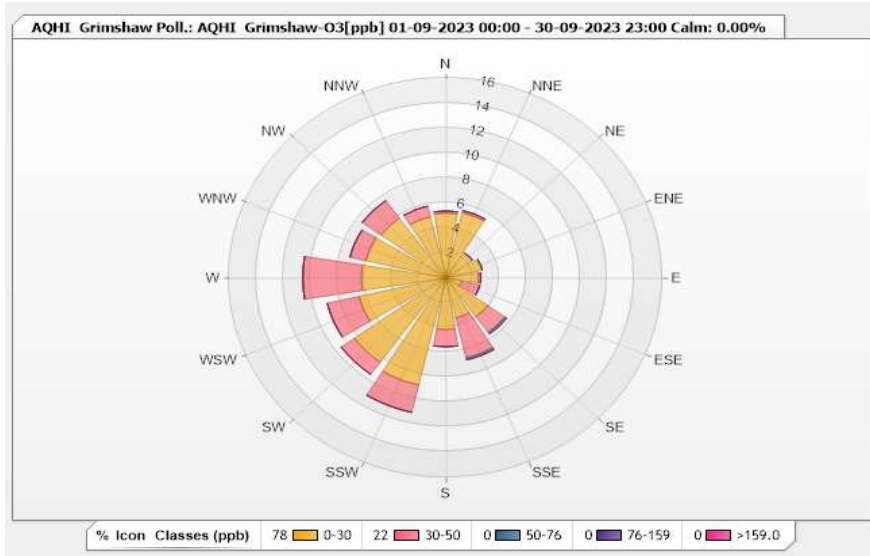


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 80.28%      Calm Avg: 0.00 [ppm]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	5.19	0.17	0	0	0	5.36
NNE	5.36	0.17	0	0	0	5.53
NE	2.42	0	0	0	0	2.42
ENE	2.77	0	0	0	0	2.77
E	2.42	0.17	0	0	0	2.59
ESE	1.21	1.38	0	0	0	2.59
SE	3.81	1.56	0.17	0	0	5.54
SSE	3.29	3.29	0.17	0	0	6.75
S	4.15	1.38	0	0	0	5.53
SSW	8.82	2.25	0	0	0	11.07
SW	8.3	1.21	0	0	0	9.51
WSW	6.57	2.42	0	0	0	8.99
W	6.23	4.33	0	0	0	10.56
WNW	6.06	1.21	0	0	0	7.27
NW	5.88	1.73	0	0	0	7.61
NNW	5.02	0.87	0	0	0	5.89
Summary	77.5	22.14	0.34	0	0	100



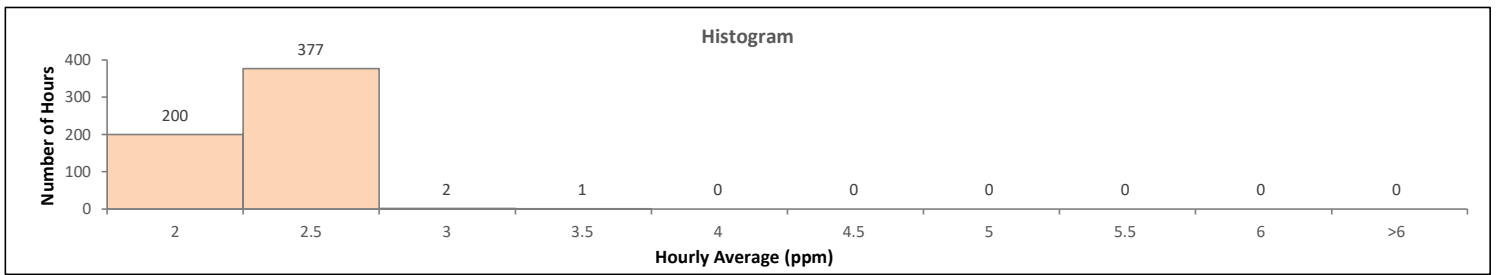
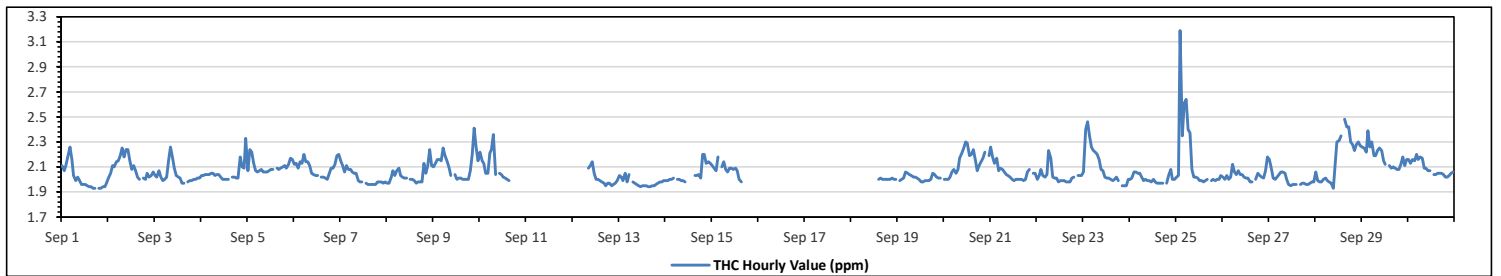
**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**TOTAL HYDROCARBONS (THC) in ppm**

Maximum Hourly Value:	3.19 ppm	on Sep 25 at hr 2	Hours in Service:	720
Maximum Daily Value:	2.18 ppm	on Sep 29	Hours of Data:	580
Minimum Hourly Value:	1.93 ppm	on Sep 1 at hr 16	Hours of Missing Data:	110
Minimum Daily Value:	1.97 ppm	on Sep 13	Hours of Calibration:	30
Monthly Average:	2.07 ppm		Operational Uptime:	84.7

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	2.11	2.07	2.11	2.18	2.26	2.16	2.03	1.99	2.02	1.99	1.96	1.96	1.96	1.95	1.94	1.94	1.93	1.93	S	1.93	1.93	1.94	1.94	1.97	1.93	2.26	2.01	
Sep 2	2.01	2.05	2.11	2.10	2.14	2.15	2.19	2.25	2.18	2.24	2.24	2.15	2.08	2.11	2.07	2.02	2.00	S	2.01	2.00	2.05	2.02	2.03	2.06	2.00	2.25	2.10	
Sep 3	2.03	2.02	2.07	2.02	1.99	2.00	2.02	2.15	2.26	2.18	2.09	2.03	2.02	2.01	1.97	1.97	S	1.98	1.99	1.99	2.00	2.00	2.01	2.01	1.97	2.26	2.04	
Sep 4	2.03	2.03	2.04	2.04	2.04	2.05	2.05	2.03	2.04	2.04	2.02	2.00	2.00	2.00	2.00	S	2.02	2.01	2.01	2.18	2.10	2.09	2.33	2.00	2.33	2.05	2.05	
Sep 5	2.07	2.24	2.22	2.13	2.07	2.06	2.07	2.08	2.06	2.06	2.06	2.07	2.08	2.08	S	2.09	2.08	2.09	2.10	2.11	2.09	2.12	2.17	2.16	2.06	2.24	2.10	
Sep 6	2.12	2.13	2.09	2.14	2.13	2.20	2.14	2.14	2.11	2.05	2.04	2.03	2.03	S	2.02	2.02	2.01	2.00	2.04	2.09	2.09	2.12	2.19	2.20	2.00	2.20	2.09	
Sep 7	2.15	2.11	2.06	2.11	2.08	2.08	2.06	2.05	2.05	1.99	1.98	1.98	S	1.97	1.96	1.96	1.96	1.96	1.98	1.98	1.98	1.98	1.97	1.98	1.96	2.15	2.02	
Sep 8	1.97	1.97	2.02	2.07	2.03	2.07	2.09	2.03	2.02	2.01	2.01	S	2.00	2.00	1.99	1.97	1.98	1.98	1.98	2.13	2.05	2.11	2.24	2.11	1.97	2.24	2.04	
Sep 9	2.10	2.13	2.16	2.16	2.15	2.25	2.19	2.14	2.09	2.03	S	2.04	2.00	2.01	2.00	2.00	2.00	2.00	2.07	2.20	2.41	2.26	2.15	2.00	2.41	2.11	2.11	
Sep 10	2.22	2.15	2.13	2.05	2.05	2.21	2.24	2.36	2.04	S	2.05	2.04	2.02	2.01	2.00	1.99	X	X	X	X	X	X	X	X	1.99	2.36	NA	
Sep 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Sep 12	X	X	X	X	X	X	X	X	2.09	2.11	2.14	2.05	2.00	2.00	1.99	1.98	1.97	1.95	1.97	1.97	1.95	1.96	1.97	1.99	1.95	2.14	NA	
Sep 13	2.03	2.02	1.99	2.05	1.98	2.04	S	1.98	1.97	1.96	1.95	1.94	1.95	1.95	1.95	1.94	1.94	1.95	1.95	1.96	1.97	1.98	1.98	1.99	1.94	2.05	1.97	
Sep 14	1.99	1.99	2.00	2.00	2.01	S	2.00	2.00	1.99	1.99	1.98	C	C	C	C	2.03	2.03	2.04	2.01	2.20	2.20	2.13	2.14	2.13	1.98	2.20	2.05	
Sep 15	2.11	2.09	2.07	2.18	S	2.10	2.14	2.08	2.06	2.09	2.09	2.08	2.09	2.07	2.00	1.98	X	X	X	X	X	X	X	X	1.98	2.18	NA	
Sep 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Sep 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Sep 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.00	2.00	2.00	2.01	2.01	NA
Sep 19	S	1.99	2.00	2.01	2.06	2.05	2.04	2.03	2.02	2.02	2.01	2.00	1.98	1.98	1.99	1.99	1.99	1.99	2.00	2.05	2.04	2.02	2.01	2.01	S	1.98	2.06	2.01
Sep 20	2.00	2.00	2.00	2.02	2.06	2.08	2.05	2.08	2.17	2.21	2.25	2.30	2.29	2.19	2.20	2.24	2.16	2.07	2.11	2.14	2.17	2.22	S	2.19	2.00	2.30	2.14	
Sep 21	2.26	2.18	2.13	2.17	2.07	2.09	2.08	2.06	2.04	2.03	2.02	2.00	1.99	2.00	2.00	2.00	2.00	1.99	2.00	2.06	2.08	S	2.05	2.05	1.99	2.26	2.06	
Sep 22	2.00	2.03	2.08	2.03	2.02	2.04	2.23	2.17	2.02	2.01	2.01	1.98	1.99	1.99	1.99	1.98	1.98	1.98	2.01	2.02	S	2.03	2.03	2.03	1.98	2.23	2.03	
Sep 23	2.06	2.40	2.46	2.35	2.26	2.23	2.22	2.10	2.16	2.08	2.07	2.02	2.01	2.01	2.00	1.99	2.00	2.02	1.99	S	1.95	1.95	2.00	1.95	2.46	2.10	2.10	
Sep 24	2.00	2.01	2.06	2.06	2.05	2.05	2.02	1.99	2.00	1.99	1.99	1.98	2.00	1.98	1.97	1.97	1.97	1.97	S	1.97	2.04	2.08	2.00	2.00	1.97	2.08	2.01	
Sep 25	2.02	2.03	3.19	2.35	2.61	2.64	2.40	2.37	2.08	2.02	2.02	2.01	1.99	1.99	1.98	1.99	2.00	S	1.99	2.00	1.99	2.00	2.00	2.03	1.98	3.19	2.16	
Sep 26	2.02	2.00	2.03	2.00	2.02	2.12	2.06	2.04	2.07	2.04	2.04	2.02	2.01	2.01	1.98	1.98	1.98	S	2.00	2.05	2.03	2.02	2.01	2.07	1.98	2.18	2.03	
Sep 27	2.16	2.09	2.01	2.00	2.02	2.04	2.06	2.06	2.05	2.00	1.96	1.95	1.96	1.96	1.96	S	1.96	1.97	1.97	1.96	1.96	1.97	1.98	1.98	1.95	2.16	2.00	
Sep 28	2.06	1.99	1.98	1.98	2.00	2.01	1.99	1.98	1.97	1.93	2.10	2.30	2.31	2.35	S	2.48	2.42	2.42	2.42	2.30	2.28	2.23	2.28	2.30	2.27	1.93	2.48	2.17
Sep 29	2.26	2.25	2.22	2.39	2.26	2.30	2.19	2.19	2.23	2.25	2.23	2.15	2.12	S	2.11	2.09	2.10	2.09	2.08	2.08	2.12	2.18	2.11	2.16	2.08	2.39	2.18	
Sep 30	2.16	2.13	2.16	2.15	2.20	2.16	2.18	2.17	2.09	2.09	2.07	2.07	S	2.04	2.05	2.05	2.05	2.05	2.04	2.02	2.02	2.03	2.05	2.06	2.02	2.20	2.09	
Diurnal Maximum	2.26	2.40	3.19	2.39	2.61	2.64	2.40	2.37	2.26	2.25	2.25	2.30	2.31	2.35	2.20	2.48	2.42	2.42	2.30	2.28	2.23	2.41	2.30	2.33				
Diurnal Average	2.08	2.08	2.14	2.11	2.11	2.13	2.10	2.07	2.06	2.06	2.05	2.05	2.04	2.03	2.01	2.03	2.02	2.02	2.03	2.04	2.05	2.07	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  
**X** InValid Data (Equipment Malfunction /Recovery)      **NRM** UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)      **P** Power Failure

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

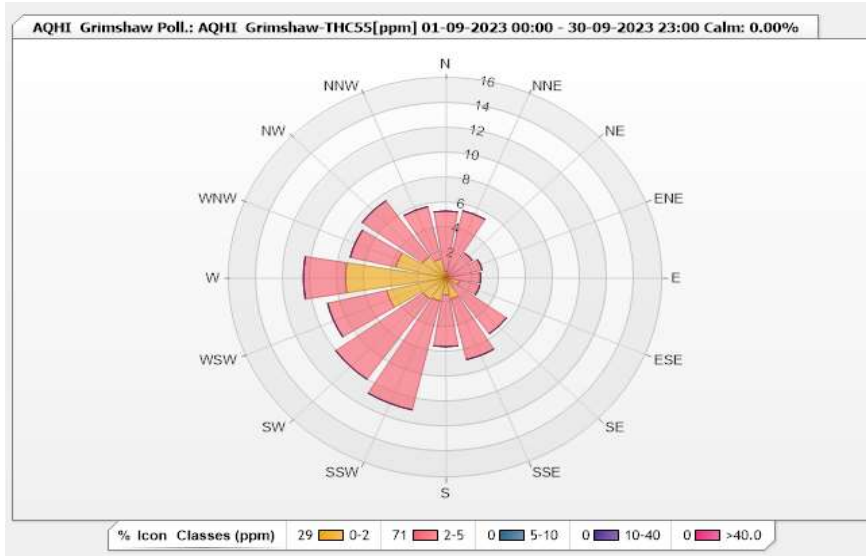


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 80.56%      Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.52	4.83	0	0	0	5.35
NNE	0.17	5.34	0	0	0	5.51
NE	0	2.41	0	0	0	2.41
ENE	0.17	2.59	0	0	0	2.76
E	0.17	2.41	0	0	0	2.58
ESE	1.03	1.55	0	0	0	2.58
SE	0.34	5.17	0	0	0	5.51
SSE	1.72	5	0	0	0	6.72
S	1.38	4.14	0	0	0	5.52
SSW	1.9	8.97	0	0	0	10.87
SW	2.07	7.93	0	0	0	10
WSW	4.48	4.48	0	0	0	8.96
W	7.41	3.1	0	0	0	10.51
WNW	3.79	3.45	0	0	0	7.24
NW	2.07	5.52	0	0	0	7.59
NNW	1.55	4.31	0	0	0	5.86
Summary	28.77	71.2	0	0	0	100



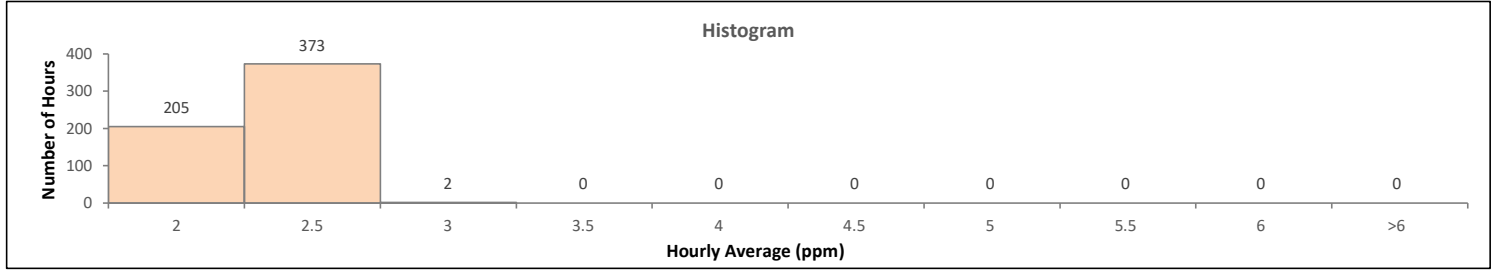
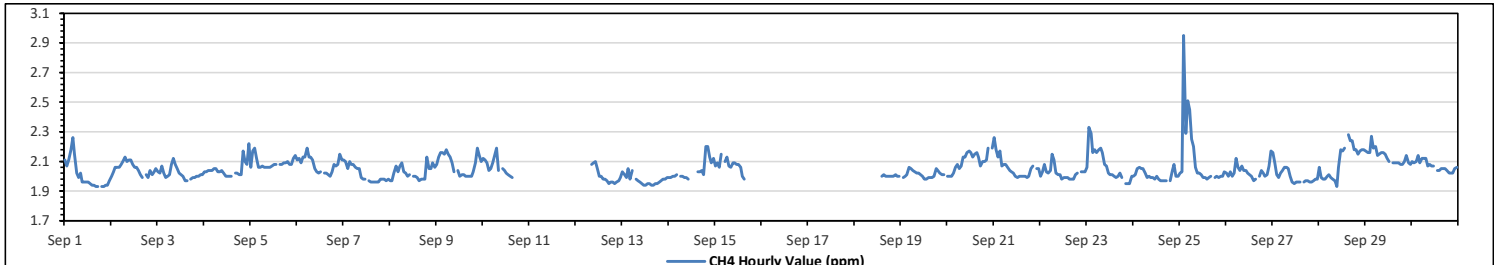
**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**METHANE (CH4) in ppm**

Maximum Hourly Value:	2.95 ppm	on Sep 25 at hr 2	Hours in Service:	720
Maximum Daily Value:	2.13 ppm	on Sep 29	Hours of Data:	580
Minimum Hourly Value:	1.93 ppm	on Sep 1 at hr 16	Hours of Missing Data:	110
Minimum Daily Value:	1.97 ppm	on Sep 13	Hours of Calibration:	30
Monthly Average:	2.05 ppm		Operational Uptime:	84.7

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	2.11	2.07	2.11	2.18	2.26	2.15	2.02	1.99	2.02	1.96	1.96	1.96	1.95	1.94	1.94	1.93	1.93	S	1.93	1.93	1.94	1.94	1.97	1.93	2.26	2.01		
Sep 2	2.00	2.03	2.06	2.06	2.06	2.08	2.10	2.13	2.10	2.11	2.08	2.06	2.06	2.04	2.01	1.99	S	2.01	1.99	2.04	2.01	2.03	2.05	1.99	2.13	2.05		
Sep 3	2.03	2.02	2.07	2.02	1.99	2.00	2.01	2.08	2.12	2.08	2.05	2.02	2.01	2.00	1.97	1.97	S	1.98	1.99	1.99	2.00	2.00	2.01	1.97	2.12	2.02		
Sep 4	2.03	2.03	2.04	2.04	2.04	2.05	2.05	2.03	2.03	2.04	2.02	2.00	2.00	2.00	2.00	S	2.02	2.02	2.01	2.17	2.10	2.08	2.22	2.00	2.22	2.04		
Sep 5	2.06	2.17	2.19	2.12	2.06	2.06	2.07	2.06	2.06	2.06	2.06	2.07	2.08	2.08	S	2.08	2.08	2.09	2.09	2.10	2.08	2.08	2.12	2.14	2.06	2.19	2.09	
Sep 6	2.11	2.12	2.09	2.13	2.13	2.19	2.13	2.13	2.11	2.05	2.03	2.02	2.03	S	2.02	2.02	2.01	2.00	2.03	2.08	2.07	2.08	2.15	2.11	2.00	2.19	2.08	
Sep 7	2.11	2.10	2.05	2.10	2.08	2.08	2.06	2.05	2.05	1.99	1.98	1.98	S	1.97	1.96	1.96	1.96	1.96	1.98	1.98	1.98	1.97	1.98	1.96	2.11	2.01		
Sep 8	1.97	1.97	2.02	2.07	2.03	2.07	2.09	2.03	2.02	2.00	2.01	S	2.00	2.00	1.99	1.97	1.98	1.98	1.98	2.13	2.05	2.05	2.09	2.06	1.97	2.13	2.02	
Sep 9	2.08	2.13	2.16	2.16	2.15	2.18	2.15	2.13	2.09	2.03	S	2.04	2.00	2.01	2.01	2.00	2.00	2.00	2.03	2.09	2.19	2.14	2.10	2.00	2.19	2.08		
Sep 10	2.12	2.11	2.09	2.04	2.05	2.09	2.14	2.19	2.04	S	2.05	2.04	2.02	2.01	2.00	1.99	X	X	X	X	X	X	X	1.99	2.19	NA		
Sep 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
Sep 12	X	X	X	X	X	X	X	X	2.08	2.09	2.10	2.05	2.00	2.00	1.98	1.98	1.97	1.95	1.96	1.96	1.95	1.96	1.97	1.99	1.95	2.10	NA	
Sep 13	2.03	2.01	1.99	2.05	1.98	2.04	S	1.98	1.97	1.96	1.95	1.94	1.94	1.95	1.95	1.94	1.94	1.95	1.95	1.96	1.97	1.98	1.98	1.99	1.94	2.05	1.97	
Sep 14	1.99	1.99	2.00	2.00	2.01	S	2.00	2.00	1.99	1.99	1.98	C	C	C	C	2.03	2.03	2.04	2.01	2.20	2.20	2.13	2.09	2.12	1.98	2.20	2.04	
Sep 15	2.07	2.09	2.06	2.15	S	2.10	2.13	2.07	2.06	2.09	2.09	2.08	2.08	2.06	2.00	1.98	X	X	X	X	X	X	X	1.98	2.15	NA		
Sep 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
Sep 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
Sep 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.00	2.00	2.01	2.01	NA	
Sep 19	S	1.99	2.00	2.01	2.06	2.05	2.04	2.03	2.02	2.02	2.01	2.00	1.98	1.98	1.99	1.99	1.99	1.99	2.00	2.05	2.04	2.02	2.01	2.01	S	1.98	2.06	2.01
Sep 20	2.00	2.00	2.00	2.02	2.06	2.08	2.05	2.07	2.13	2.13	2.16	2.17	2.16	2.13	2.15	2.16	2.13	2.07	2.10	2.10	2.11	2.19	S	2.19	2.00	2.19	2.10	
Sep 21	2.26	2.18	2.13	2.17	2.07	2.08	2.08	2.06	2.04	2.03	2.02	2.00	1.99	2.00	2.00	2.00	1.99	2.00	2.05	2.07	S	2.05	2.05	1.99	2.26	2.06	2.06	
Sep 22	2.00	2.03	2.08	2.03	2.02	2.04	2.15	2.11	2.02	2.01	2.01	1.98	1.99	1.99	1.99	1.98	1.98	1.98	2.01	2.02	S	2.03	2.03	1.98	2.15	2.02	2.02	
Sep 23	2.06	2.33	2.29	2.16	2.18	2.16	2.18	2.19	2.16	2.08	2.07	2.02	2.01	2.01	2.00	1.99	2.00	2.02	1.99	S	1.95	1.95	1.95	2.00	1.95	2.33	2.08	
Sep 24	2.00	2.01	2.05	2.06	2.05	2.05	2.02	1.99	2.00	1.99	1.99	1.98	2.00	1.98	1.97	1.97	1.97	1.97	S	1.97	2.04	2.08	2.00	2.00	1.97	2.08	2.01	
Sep 25	2.02	2.03	2.95	2.29	2.51	2.45	2.25	2.20	2.06	2.02	2.02	2.01	1.99	1.99	1.98	1.99	2.00	S	1.99	2.00	1.99	2.00	2.00	2.00	1.98	2.95	2.12	
Sep 26	2.02	2.00	2.03	2.00	2.02	2.12	2.06	2.04	2.07	2.04	2.04	2.02	2.01	2.00	1.97	1.98	S	2.00	2.04	2.02	2.00	2.01	2.07	2.17	1.97	2.17	2.03	
Sep 27	2.16	2.09	2.01	1.99	2.02	2.04	2.06	2.06	2.05	2.00	1.96	1.95	1.96	1.96	S	1.96	1.97	1.97	1.96	1.96	1.96	1.97	1.98	1.98	1.95	2.16	2.00	
Sep 28	2.06	1.99	1.98	1.98	2.00	2.01	1.99	1.98	1.97	1.93	2.06	2.18	2.17	2.19	S	2.28	2.24	2.24	2.24	2.18	2.18	2.15	2.17	2.18	1.93	2.28	2.10	
Sep 29	2.17	2.16	2.16	2.27	2.19	2.20	2.14	2.15	2.16	2.16	2.15	2.12	2.10	S	2.09	2.09	2.09	2.09	2.08	2.08	2.10	2.14	2.09	2.08	2.08	2.27	2.13	
Sep 30	2.10	2.09	2.10	2.14	2.09	2.12	2.12	2.07	2.08	2.07	2.07	S	2.04	2.04	2.05	2.05	2.05	2.05	2.04	2.02	2.02	2.02	2.05	2.06	2.02	2.14	2.07	
Diurnal Maximum	2.26	2.33	2.95	2.29	2.51	2.45	2.25	2.20	2.16	2.16	2.16	2.18	2.17	2.19	2.15	2.28	2.24	2.24	2.18	2.20	2.20	2.19	2.18	2.22				
Diurnal Average	2.07	2.07	2.11	2.09	2.10	2.09	2.07	2.06	2.04	2.04	2.03	2.02	2.02	2.00	2.01	2.01	2.01	2.02	2.03	2.04	2.05	2.04	2.06					

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

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

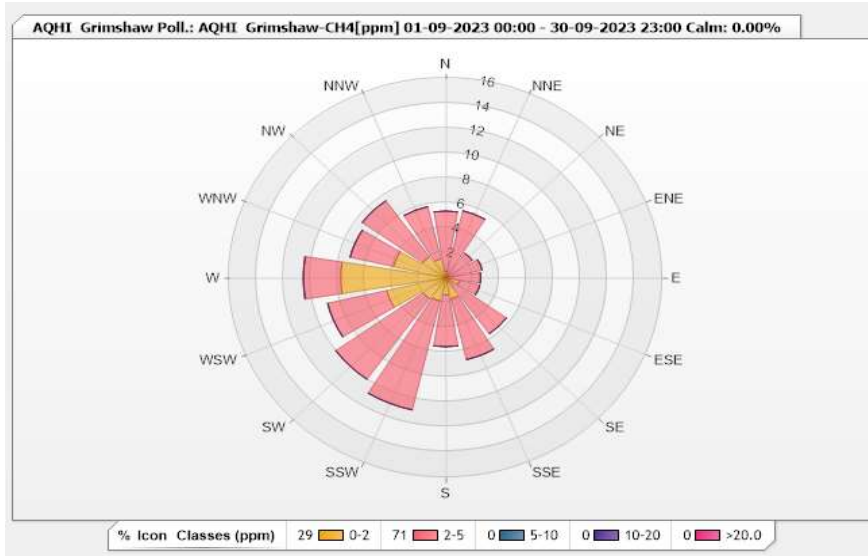


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 80.56%      Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.52	4.83	0	0	0	5.35
NNE	0.17	5.34	0	0	0	5.51
NE	0	2.41	0	0	0	2.41
ENE	0.17	2.59	0	0	0	2.76
E	0.17	2.41	0	0	0	2.58
ESE	1.03	1.55	0	0	0	2.58
SE	0.34	5.17	0	0	0	5.51
SSE	1.72	5	0	0	0	6.72
S	1.38	4.14	0	0	0	5.52
SSW	1.9	8.97	0	0	0	10.87
SW	2.07	7.93	0	0	0	10
WSW	4.48	4.48	0	0	0	8.96
W	7.76	2.76	0	0	0	10.52
WNW	3.97	3.28	0	0	0	7.25
NW	2.07	5.52	0	0	0	7.59
NNW	1.55	4.31	0	0	0	5.86
Summary	29.3	70.69	0	0	0	100



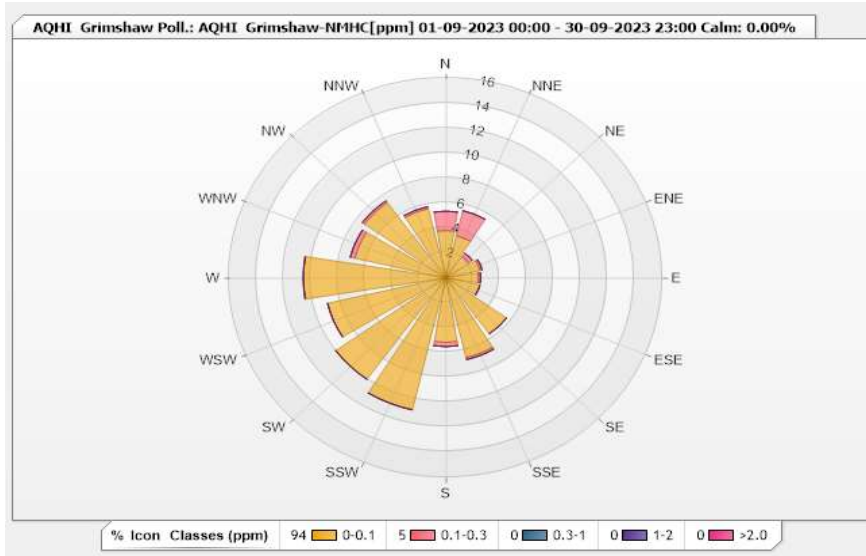


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 09-2023

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

Calm: 0.00%      Valid Data: 80.56%      Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	3.79	1.55	0	0	0	5.34
NNE	3.45	2.07	0	0	0	5.52
NE	2.07	0.34	0	0	0	2.41
ENE	2.59	0.17	0	0	0	2.76
E	2.41	0.17	0	0	0	2.58
ESE	2.59	0	0	0	0	2.59
SE	5.52	0	0	0	0	5.52
SSE	6.55	0.17	0	0	0	6.72
S	5.17	0.34	0	0	0	5.51
SSW	10.86	0	0	0	0	10.86
SW	10	0	0	0	0	10
WSW	8.97	0	0	0	0	8.97
W	10.52	0	0	0	0	10.52
WNW	6.9	0.34	0	0	0	7.24
NW	7.41	0.17	0	0	0	7.58
NNW	5.69	0.17	0	0	0	5.86
Summary	94.49	5.49	0	0	0	100

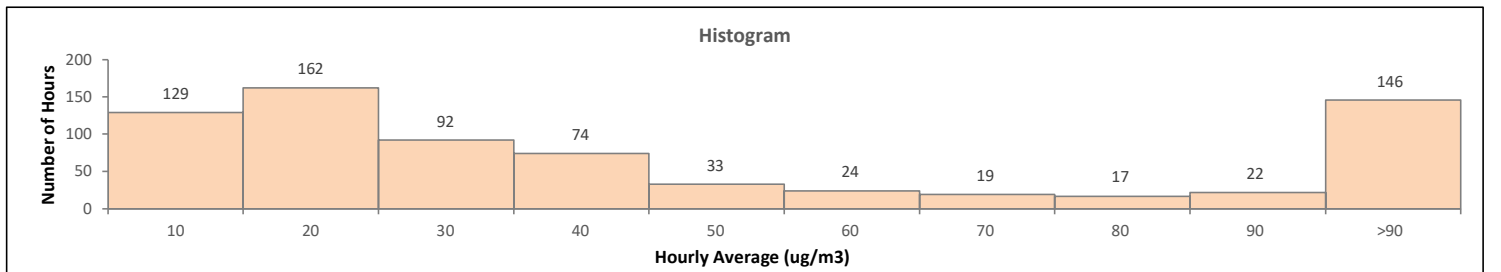
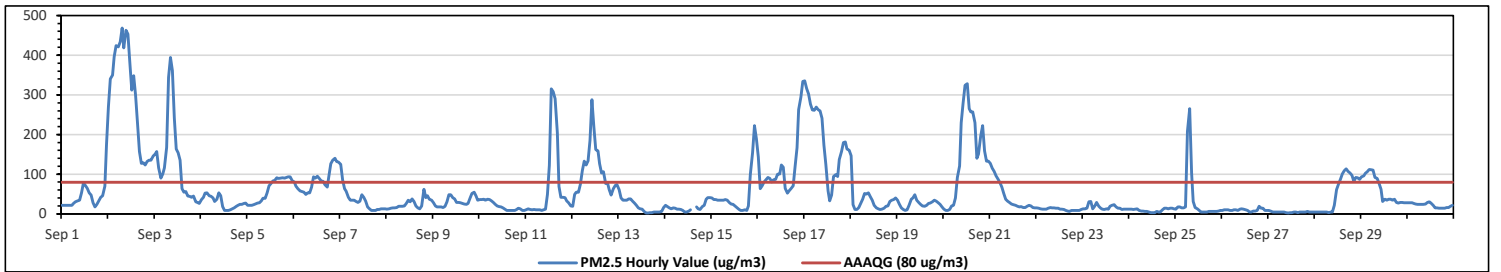




**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**PARTICULATE MATTER 2.5 (PM<sub>2.5</sub>) in µg/m<sup>3</sup>**

Alberta Ambient Air Quality Guideline (AAAQG): 1-Hour 80 µg/m <sup>3</sup> , Alberta Ambient Air Quality Objective (AAAQO): 24-Hour 29 µg/m <sup>3</sup>																																																			
Number of 1-Hour Exceedances: <b>168</b>												Number of 24-Hour Exceedances: <b>18</b>																																							
Maximum Hourly Value: 469 µg/m <sup>3</sup> on Sep 2 at hr 7												Hours in Service: 720																																							
Maximum Daily Value: 295.4 µg/m <sup>3</sup> on Sep 2												Hours of Data: 718																																							
Minimum Hourly Value: 2 µg/m <sup>3</sup> on Sep 13 at hr 14												Hours of Missing Data: 0																																							
Minimum Daily Value: 4 µg/m <sup>3</sup> on Sep 27												Hours of Calibration: 2																																							
Monthly Average: 59.9 µg/m <sup>3</sup>												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																											
Sep 1	21	21	21	21	21	22	26	30	33	34	53	78	72	64	53	47	28	17	24	33	42	46	70	173	17	173	43.8																								
Sep 2	269	340	350	396	424	421	434	469	419	463	453	382	312	348	298	228	157	127	129	123	132	135	135	146	123	469	295.4																								
Sep 3	151	157	116	90	101	116	168	345	395	361	242	163	154	135	63	54	56	45	44	42	45	30	29	26	26	395	130.3																								
Sep 4	36	42	52	53	46	44	40	31	37	53	46	18	9	8	10	13	15	19	21	24	24	26	27	8	53	29.3																									
Sep 5	22	22	22	23	25	27	28	33	39	39	53	71	76	83	84	91	89	90	91	90	92	93	93	83	22	93	60.8																								
Sep 6	81	70	63	58	56	54	49	53	53	67	93	90	95	89	83	82	73	68	95	126	135	140	132	131	49	140	84.8																								
Sep 7	125	85	63	57	42	34	34	35	31	29	32	48	42	32	17	13	9	9	11	11	13	13	13	9	125	33.6																									
Sep 8	12	13	14	15	15	16	19	19	19	20	26	34	30	38	31	20	15	13	20	62	41	46	37	35	12	62	25.4																								
Sep 9	28	20	17	17	17	16	19	30	48	48	41	38	29	29	28	26	25	24	26	39	51	55	45	35	16	55	31.3																								
Sep 10	36	36	37	35	37	36	33	29	24	20	18	17	15	12	9	9	8	8	8	11	14	13	9	9	8	37	20.1																								
Sep 11	10	13	11	10	11	10	10	10	9	10	12	49	122	315	308	290	204	69	42	42	41	33	28	20	9	315	70.0																								
Sep 12	19	49	54	55	75	109	133	123	134	185	288	220	162	159	126	103	106	76	77	61	47	63	72	74	19	288	107.1																								
Sep 13	61	40	35	35	34	38	38	32	27	22	15	13	12	6	2	2	3	3	4	4	5	6	16	2	61	19.0																									
Sep 14	21	18	15	13	15	14	12	12	11	8	5	4	7	10	C	C	17	13	11	18	22	37	41	41	4	41	16.6																								
Sep 15	40	36	36	34	35	34	35	36	35	29	25	24	20	15	11	8	9	10	9	20	99	154	223	190	8	223	48.6																								
Sep 16	143	63	71	80	86	92	89	80	86	87	100	101	123	117	64	52	58	63	71	120	167	263	294	334	52	334	116.8																								
Sep 17	336	316	302	277	262	261	269	263	259	241	173	125	58	33	47	94	99	94	137	157	180	181	163	160	33	336	187.0																								
Sep 18	147	23	11	11	16	26	37	51	50	53	43	35	21	15	13	11	12	14	19	20	31	35	36	40	11	147	32.1																								
Sep 19	35	24	15	11	9	10	21	37	40	48	34	28	24	20	19	22	26	27	30	34	32	29	24	17	9	48	25.7																								
Sep 20	12	9	8	11	20	21	40	92	121	230	280	324	328	265	257	230	140	151	197	222	159	133	133	8	328	151.7																									
Sep 21	127	115	107	96	88	79	67	51	37	32	28	25	23	21	19	17	18	16	16	19	21	20	16	15	15	127	44.7																								
Sep 22	15	14	13	12	12	12	14	16	15	15	14	12	12	11	8	7	6	6	8	9	8	9	9	11	6	16	11.5																								
Sep 23	13	13	14	30	31	13	19	29	19	14	12	11	13	12	19	22	23	17	14	14	11	12	12	12	11	31	16.6																								
Sep 24	12	12	11	12	13	8	7	7	6	6	4	3	3	3	6	5	5	10	14	14	13	14	14	13	3	14	9.0																								
Sep 25	12	17	15	15	17	208	265	103	31	16	13	9	5	5	5	5	6	6	6	6	6	7	8	5	5	265	33.5																								
Sep 26	8	10	10	10	9	9	10	10	9	12	13	12	10	8	5	5	7	7	9	19	14	14	8	9	5	19	9.9																								
Sep 27	8	7	5	4	4	4	4	4	4	3	2	3	3	4	4	3	4	4	4	4	6	5	5	5	2	8	4.3																								
Sep 28	5	5	4	4	4	4	4	3	4	5	21	61	75	87	101	109	114	107	103	97	82	92	91	87	3	114	52.9																								
Sep 29	93	96	102	106	112	111	110	92	89	76	62	31	37	35	37	37	35	37	29	27	29	28	28	27	112	61.2																									
Sep 30	28	28	28	26	25	24	24	24	24	25	29	30	27	21	15	15	14	14	14	14	16	16	19	21	14	30	21.7																								
Diurnal Maximum	336	340	350	396	424	421	434	469	419	463	453	382	328	348	308	290	230	140	151	197	222	263	294	334																											
Diurnal Average	64.2	57.1	54.1	53.9	55.3	56.1	66.7	77.0	72.7	75.5	74.4	68.8	64.1	66.7	60.1	56.7	49.0	38.3	41.1	48.5	54.6	59.0	60.6	63.7																											
C	Monthly Calibration												S	Daily Zero-Span Check												Q	Quality Assurance																								
K	Collection Error												ND	No Data (Machine Not in Service)												Y	Routine Maintenance												P	Power Failure											
X	Invalid Data (Equipment Malfunction / Recovery)												NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																					

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

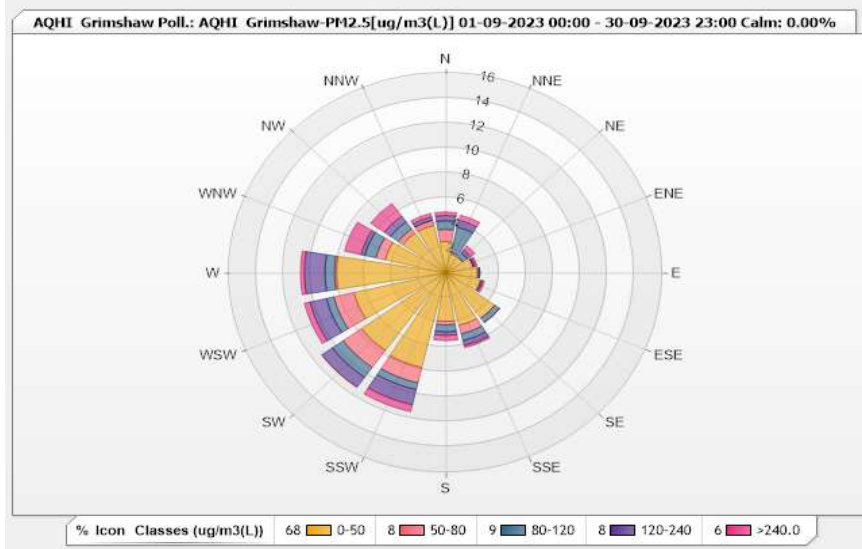


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 09-2023

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

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

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	2.51	0.97	0.7	0.42	0.28	4.88
NNE	1.53	0.14	2.09	0.56	0.42	4.74
NE	1.53	0	0.42	0.28	0.42	2.65
ENE	2.09	0	0	0.14	0.14	2.37
E	2.37	0	0.14	0	0	2.51
ESE	2.65	0	0.14	0	0.14	2.93
SE	4.46	0	0.42	0	0	4.88
SSE	4.32	0.7	0.56	0.42	0.14	6.14
S	3.9	0.28	0.56	0.28	0.42	5.44
SSW	7.8	1.25	0.56	1.25	0.56	11.42
SW	7.66	1.67	0.97	0.97	0	11.27
WSW	6.96	1.53	0.56	1.25	0.42	10.72
W	8.08	0.14	0.7	1.53	0.28	10.73
WNW	4.6	0.7	0.84	0.28	1.25	7.67
NW	3.9	0.42	0.7	0.56	1.25	6.83
NNW	3.9	0.42	0	0.28	0.28	4.88
Summary	68.26	8.22	9.36	8.22	6	100



**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**RELATIVE HUMIDITY (RH) in %**

Maximum Hourly Value:	100 %	on Sep 6 at hr 0	Hours in Service:	720
Maximum Daily Value:	92.7 %	on Sep 28	Hours of Data:	720
Minimum Hourly Value:	18 %	on Sep 16 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	40.4 %	on Sep 16	Hours of Calibration:	0
Monthly Average:	61.7 %		Operational Uptime:	100.0

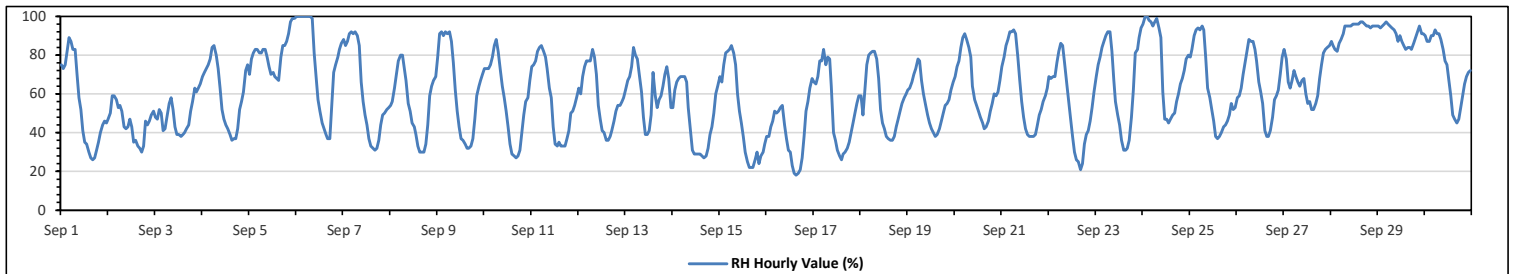
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	75	73	75	82	89	87	83	83	70	58	52	41	35	34	30	27	26	27	31	35	40	44	46	45	26	89	53.7
Sep 2	47	50	59	59	57	53	54	51	43	42	43	47	43	35	36	33	32	30	33	46	44	46	49	51	30	59	45.1
Sep 3	48	47	52	50	41	42	49	55	58	52	43	39	39	38	39	40	42	44	51	56	63	61	63	65	38	65	49.0
Sep 4	69	71	73	75	78	84	85	80	73	63	52	47	44	42	39	36	37	37	42	52	56	61	72	75	36	85	60.1
Sep 5	70	78	81	83	83	81	81	83	83	79	74	70	71	69	68	67	79	85	85	87	91	97	99	99	67	99	81.0
Sep 6	100	100	100	100	100	100	100	100	99	81	69	57	51	45	42	39	37	37	54	71	75	79	83	86	37	100	75.2
Sep 7	88	85	87	91	92	91	92	90	85	66	56	49	44	37	33	32	31	32	36	44	49	50	52	53	31	92	61.0
Sep 8	54	56	63	70	77	80	80	74	67	55	51	45	43	39	33	30	30	30	34	44	59	64	67	69	30	80	54.8
Sep 9	79	91	92	90	92	91	92	87	76	62	51	43	37	36	34	32	32	33	37	47	59	64	67	70	32	92	62.3
Sep 10	73	73	73	75	79	85	88	82	72	64	58	51	43	34	29	28	27	28	31	40	49	56	58	67	27	88	56.8
Sep 11	74	75	77	82	84	85	82	79	73	63	58	43	34	33	35	33	33	33	37	41	50	51	54	58	33	85	57.0
Sep 12	63	60	69	74	77	77	77	83	79	70	54	47	41	40	36	36	38	41	46	51	54	54	56	58	36	83	57.5
Sep 13	62	67	69	74	84	80	78	70	61	48	39	39	41	49	71	59	53	57	59	64	70	74	68	53	39	84	62.0
Sep 14	53	62	66	68	69	69	69	66	53	41	31	29	29	29	29	28	27	28	32	39	43	50	60	64	27	69	47.3
Sep 15	69	66	75	81	82	83	85	81	75	60	51	45	38	30	25	22	22	22	26	30	24	28	30	34	22	85	49.3
Sep 16	38	38	43	46	51	50	51	53	54	44	37	31	30	23	19	18	19	21	27	38	51	56	63	68	18	68	40.4
Sep 17	66	65	69	77	77	83	75	79	78	64	40	36	31	28	26	29	30	32	35	40	45	50	55	59	26	83	52.9
Sep 18	59	49	62	75	80	81	82	82	78	68	52	45	42	38	37	36	36	38	43	47	51	55	58	60	36	82	56.4
Sep 19	62	63	66	70	73	78	77	67	60	54	49	45	42	40	38	39	42	46	50	54	55	57	62	66	38	78	56.5
Sep 20	69	74	77	84	89	91	88	84	79	64	57	54	51	48	45	42	43	46	51	55	60	59	61	67	42	91	64.1
Sep 21	74	79	85	88	92	92	93	91	79	67	56	48	42	39	38	38	38	39	43	49	52	56	59	63	38	93	62.5
Sep 22	69	68	69	69	76	82	86	85	76	65	56	47	38	30	26	25	21	24	34	39	41	46	53	61	21	86	53.6
Sep 23	69	75	79	84	87	90	92	92	82	67	56	49	44	36	31	31	32	36	48	62	81	83	89	94	31	94	66.2
Sep 24	96	100	100	98	97	95	97	99	94	89	61	47	47	45	47	49	50	56	60	65	68	72	78	80	45	100	74.6
Sep 25	79	83	90	93	94	93	95	93	79	63	58	52	46	38	37	38	40	43	44	46	49	55	52	53	37	95	63.0
Sep 26	58	59	63	70	76	82	88	87	87	83	77	66	61	55	41	38	38	41	48	57	59	62	70	79	38	88	64.4
Sep 27	83	78	66	63	67	72	69	66	64	67	68	60	55	56	52	52	55	59	68	75	81	83	84	85	52	85	67.8
Sep 28	87	85	83	82	86	88	91	95	95	95	95	96	96	96	96	97	97	96	95	95	94	95	95	95	82	97	92.7
Sep 29	95	94	95	96	97	96	95	94	93	91	87	90	87	85	83	84	83	86	89	92	95	91	91	91	83	97	90.5
Sep 30	90	87	87	90	90	93	91	91	88	83	77	75	67	59	49	47	45	47	53	59	65	69	71	72	45	93	72.7
Diurnal Maximum	100	100	100	100	100	100	100	100	99	95	95	96	96	96	96	97	97	96	95	95	94	97	99	99			
Diurnal Average	70.6	71.7	74.8	78.0	80.5	81.8	82.2	80.7	75.1	65.6	56.9	51.1	47.1	43.5	41.5	40.2	40.5	42.4	47.3	53.9	59.0	62.4	65.5	68.0			

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

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



**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**BAROMETRIC PRESSURE (BP) in millibar**

Maximum Hourly Value:	954	mb	on Sep 9 at hr 6	Hours in Service:	720
Maximum Daily Value:	953	mb	on Sep 9	Hours of Data:	720
Minimum Hourly Value:	927	mb	on Sep 1 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	932	mb	on Sep 17	Hours of Calibration:	0
Monthly Average:	940	mb		Operational Uptime:	100.0

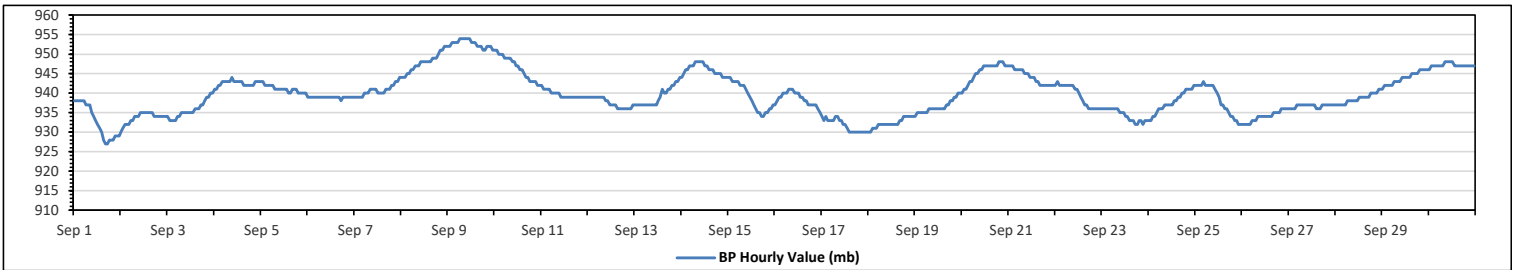
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	938	938	938	938	938	938	937	937	937	935	934	933	932	931	930	928	927	927	928	928	928	929	929	929	927	938	933
Sep 2	930	931	932	932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

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

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



**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**AMBIENT TEMPERATURE (AT) in Degree Celsius**

Maximum Hourly Value:	26.8 °C	on Sep 1 at hr 16	Hours in Service:	720
Maximum Daily Value:	18.7 °C	on Sep 1	Hours of Data:	720
Minimum Hourly Value:	2.8 °C	on Sep 21 at hr 6	Hours of Missing Data:	0
Minimum Daily Value:	6.8 °C	on Sep 29	Hours of Calibration:	0
Monthly Average:	12.5 °C		Operational Uptime:	100.0

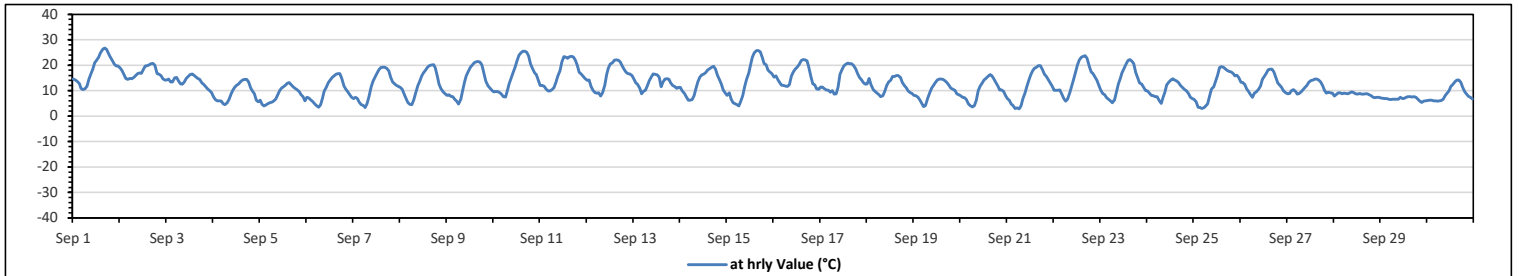
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Sep 1	14.6	14.1	13.6	12.8	10.9	10.4	10.8	11.8	14.5	16.5	18.5	20.9	22	23.1	24.9	26.2	<b>26.8</b>	26.2	24.6	23.3	21.8	20.4	19.7	19.7	10.4	<b>26.8</b>	<b>18.7</b>
Sep 2	18.8	17.9	16.4	14.9	14.4	14.8	14.7	15.1	16	16.6	16.9	16.8	18.3	19.7	19.9	20.3	20.6	20.7	20	16.7	16.4	15.9	14.7	14.1	14.1	20.7	17.1
Sep 3	14.2	14.6	13.4	13.4	15	15.1	13.7	12.7	12.5	13.5	14.8	15.6	16.3	16.5	16.1	15.4	14.8	14.4	13.1	12.4	11.5	10.7	10	9.3	9.3	16.5	13.7
Sep 4	7.6	6.5	6	6	5.8	4.9	4.5	5.3	6.7	8.6	10.3	11.4	12.2	12.7	13.6	14.2	14.4	14.4	13.4	11.1	10	8.8	6.3	5.6	4.5	14.4	9.2
Sep 5	6.3	4.6	4	4.3	4.9	5.2	5.5	6	6.8	8.4	10	11	11.5	12.2	12.9	13.2	12.2	11.5	10.9	10.4	9.6	8.3	7.6	6	4.0	13.2	8.5
Sep 6	7.3	7.1	6.4	5.7	4.8	4.2	3.5	4.5	7.1	9.7	11.4	13.2	14.2	15.1	15.8	16.4	16.7	16.6	14.8	11.8	10.5	9.5	8.4	7.4	3.5	16.7	10.1
Sep 7	6.9	7.4	6.9	5.4	4.5	4.2	3.4	4.8	7.7	11.5	13.7	15.3	16.8	18.2	19	19.2	19.2	18.9	17.8	15.2	13.4	12.8	12.2	11.7	3.4	19.2	11.9
Sep 8	11.3	10.5	8.6	6.9	5.2	4.6	4.4	6.4	9.5	12.1	13.8	15.8	17	18.1	19.2	19.9	20.1	20.2	19	16.1	12.5	10.8	9.5	8.8	4.4	20.2	12.5
Sep 9	8.2	8.4	7.8	7.6	6.6	5.8	4.7	6.7	10.2	13.6	15.8	17.5	19.1	20.1	20.9	21.3	21.5	21.2	20.1	17	13.7	11.9	11	10.2	4.7	21.5	13.4
Sep 10	9.5	9.6	9.6	9.3	8.6	7.7	7.5	9.7	12.6	14.8	17	19.3	21.8	24	24.8	25.5	25.5	25.1	23.6	20.4	18.4	16.9	16.3	14.1	7.5	25.5	16.3
Sep 11	12.1	12.1	11.7	10.5	9.9	9.8	10.4	11.1	13.2	15.7	17.8	21.4	23.3	23.2	22.7	23.3	23.4	23.2	21.9	20	17.2	16.5	15.7	14.8	9.8	23.4	16.7
Sep 12	14	14.2	11.6	10.1	9.3	9	9.1	7.9	9.2	12.2	16.4	18.8	20.4	21	21.9	22.1	22	21.3	19.9	18.5	17.4	16.6	16.5	16	7.9	22.1	15.6
Sep 13	14.6	13.1	12.5	11	8.7	9.7	10.1	11.9	13.9	15.3	16.5	16.4	16.2	15.3	11.5	13.5	14.6	14.7	14.5	13.1	12	11.6	10.9	11.2	8.7	16.5	13.0
Sep 14	11.2	9.9	8.9	7.5	6.3	6.2	6.5	8	10.9	13.6	15.3	16.2	16.5	17.2	18.1	18.6	19.2	19.6	18.4	16.1	14.4	12.6	10.3	9.2	6.2	19.6	12.9
Sep 15	8.2	9.2	6.7	5.2	4.8	4.4	4	5.8	8.1	11.5	14.4	16.9	19.8	23.1	24.9	25.7	25.7	25.3	23	20.6	20.2	18	17.3	16.7	4.0	25.7	15.0
Sep 16	15.3	15.8	14.3	13.3	12.2	12.1	11.8	11.6	12.4	15.7	17.4	18.4	19.1	20.3	21.8	22.2	22.1	21.7	19.5	15.6	12.6	12.3	10.7	10.6	10.6	22.2	15.8
Sep 17	11.4	11.4	10.8	10.3	10.1	9.4	10	8.6	8.8	11.4	16.4	18.2	19.7	20.4	20.8	20.5	20.5	20	18.6	16.7	15.2	14.3	13.2	12.5	8.6	20.8	14.6
Sep 18	12.6	14.9	12.3	10.4	9.6	9	8.3	7.7	8.1	9.7	12	13.5	14.1	15.5	15.6	15.9	15.9	15.2	13.2	12	11.1	9.8	9.3	8.9	7.7	15.9	11.9
Sep 19	8.2	8	7.3	6.2	5.1	3.8	4.2	7	9	10.9	12.1	13.2	14.1	14.5	14.6	14.4	13.8	13.1	12	11	10.6	10.1	8.8	8.3	3.8	14.6	10.0
Sep 20	8.1	7.3	7.2	6.5	4.8	4.1	3.6	4.1	6.3	10	11.8	12.9	14.1	14.9	15.6	16.3	16	14.9	13.5	11.9	10.3	10.3	9.7	8.2	3.6	16.3	10.1
Sep 21	6.9	6.2	4.7	4.1	2.9	3.2	<b>2.8</b>	4.1	6.6	9	11.6	14	16.2	17.8	18.9	19.2	19.8	19.8	18.5	16.4	15.6	14.3	13.1	11.8	<b>2.8</b>	19.8	11.6
Sep 22	10.1	10.1	10.2	10.3	8.3	7	5.9	6.6	9.2	11.8	14.4	17.2	20.1	22.1	23.1	23.5	23.7	22.8	19.6	17.4	16.8	15.5	14	12	5.9	23.7	14.7
Sep 23	10.2	8.9	8.3	7.2	6.6	6	5.3	6.4	9.5	12.7	14.9	16.9	18.9	20.4	21.8	22.2	21.6	20.5	17.2	15.1	13	12.5	11.2	10	5.3	22.2	13.2
Sep 24	9.9	9	8.2	8.1	7.6	7.6	6	5	7.5	9.3	12.3	13.5	14.1	14.7	14.1	13.7	13.2	12.1	11.3	10.6	9.9	8.9	7.3	6.9	5.0	14.7	10.0
Sep 25	6.6	5.6	3.5	3.3	3	3.4	4	4.9	7.9	10.7	11.5	13.7	16.1	19	19.5	19.1	18.6	17.9	17.6	17.3	16.7	15.8	16.1	15.2	3.0	19.5	12.0
Sep 26	13.3	13.2	12.4	10.7	9.6	8.4	7.4	9	9.5	10.5	11.8	14.4	15.4	16.5	18.2	18.5	18.4	17.3	15.2	13	12.2	11.2	9.9	9.2	7.4	18.5	12.7
Sep 27	8.8	8.9	10	10.4	9.7	8.6	8.9	9.5	10.5	11.4	12.1	13.3	13.9	14.2	14.5	14.6	14.2	13.5	12	10.1	9	9.4	9.1	9	8.6	14.6	11.1
Sep 28	7.9	8.4	9.1	9.2	8.8	9	8.9	8.8	9.1	9.5	9.3	8.7	8.6	8.9	8.6	8.6	8.8	8.7	8.4	8	7.4	7.2	7.3	7.3	7.2	9.5	8.5
Sep 29	7.1	7	6.9	6.9	6.7	6.5	6.7	6.6	6.6	6.7	7.3	6.9	7	7.3	7.7	7.6	7.5	7.6	7.3	6.7	5.9	5.4	5.9	6	5.4	7.7	<b>6.8</b>
Sep 30	6.1	6.3	6.3	6	6	5.8	6	6.1	6.7	8.1	9.1	9.8	11.6	12.4	13.6	14.2	14.2	13.3	11.3	9.6	8.6	7.8	7.4	6.8	5.8	14.2	8.9
Diurnal Maximum	18.8	17.9	16.4	14.9	15.0	15.1	14.7	15.1	16.0	16.6	18.5	21.4	23.3	24.0	24.9	26.2	26.8	26.2	24.6	23.3	21.8	20.4	19.7	19.7			
Diurnal Average	10.2	10.0	9.2	8.5	7.7	7.3	7.1	7.8	9.6	11.7	13.6	15.0	16.3	17.3	17.8	18.2	18.2	17.7	16.3	14.5	13.1	12.2	11.3	10.6			

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

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



**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**STATION TEMPERATURE (ST) in Degree Celsius**

Maximum Hourly Value:	42.4 °C	on Sep 11 at hr 17	Hours in Service:	720
Maximum Daily Value:	36.2 °C	on Sep 11	Hours of Data:	720
Minimum Hourly Value:	18.3 °C	on Sep 28 at hr 9	Hours of Missing Data:	0
Minimum Daily Value:	19.4 °C	on Sep 28	Hours of Calibration:	0
Monthly Average:	23.1 °C		Operational Uptime:	100.0

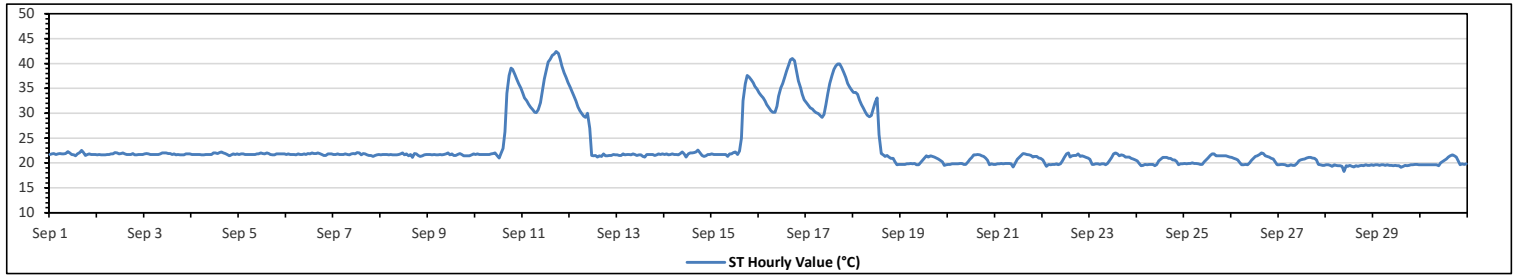
  

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Sep 1	21.7	21.8	21.9	21.7	21.8	21.9	21.8	21.8	21.9	22.3	22.0	21.7	21.6	21.4	21.8	22.1	22.5	22.1	21.5	21.7	21.8	21.7	21.7	21.7	21.4	22.5	21.8	
Sep 2	21.6	21.7	21.6	21.6	21.6	21.7	21.7	21.8	21.8	22.1	22.0	21.8	21.9	22.0	21.8	21.7	21.7	21.7	21.9	21.6	21.6	21.7	21.7	21.7	21.6	22.1	21.8	
Sep 3	21.8	21.9	21.8	21.7	21.7	21.7	21.7	21.7	21.8	22.0	22.0	22.0	21.9	21.9	21.7	21.8	21.6	21.7	21.6	21.6	21.6	21.8	21.8	21.8	21.6	22.0	21.8	
Sep 4	21.7	21.7	21.7	21.7	21.7	21.6	21.6	21.7	21.7	21.7	21.7	21.7	21.8	21.7	21.8	22.0	22.0	21.9	21.7	21.4	21.6	21.8	21.8	21.7	21.8	21.4	22.2	21.8
Sep 5	21.7	21.8	21.8	21.7	21.7	21.7	21.7	21.7	21.7	21.8	21.8	22.0	21.9	21.8	22.0	21.9	21.7	21.6	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.6	22.0	21.8
Sep 6	21.7	21.8	21.7	21.7	21.7	21.6	21.8	21.7	21.7	21.8	21.7	21.9	21.8	22.0	21.9	21.9	22.0	21.9	21.7	21.5	21.5	21.8	21.8	21.8	21.5	22.0	21.8	
Sep 7	21.7	21.7	21.8	21.7	21.7	21.7	21.8	21.7	21.6	21.8	21.8	21.9	21.8	22.1	22.0	21.6	21.9	21.8	21.6	21.5	21.5	21.3	21.5	21.6	21.7	21.3	22.1	21.7
Sep 8	21.6	21.7	21.7	21.7	21.6	21.7	21.6	21.6	21.6	21.7	21.8	22.0	21.6	21.8	21.4	21.7	21.1	21.9	21.8	21.5	21.3	21.4	21.6	21.7	21.1	22.0	21.6	
Sep 9	21.7	21.7	21.6	21.7	21.6	21.6	21.7	21.6	21.7	21.8	22.0	21.6	21.8	21.5	21.5	21.7	21.9	21.7	21.4	21.4	21.4	21.4	21.6	21.8	21.4	22.0	21.6	
Sep 10	21.7	21.8	21.7	21.7	21.7	21.7	21.7	21.8	21.9	22.0	21.4	21.0	21.8	22.9	26.3	34.0	37.6	39.1	38.8	37.8	36.8	35.9	35.0	21.0	39.1	27.0	21.6	
Sep 11	34.0	33.1	32.5	31.8	31.2	30.7	30.2	30.1	30.7	32.1	34.5	36.9	38.9	40.3	40.8	41.6	41.9	<b>42.4</b>	42.0	41.0	39.4	38.1	37.2	36.2	30.1	<b>42.4</b>	<b>36.2</b>	
Sep 12	35.2	34.4	33.5	32.4	31.3	30.5	29.9	29.4	29.2	30.0	27.0	21.5	21.4	21.5	21.2	21.4	21.3	21.8	21.4	21.4	21.5	21.5	21.6	21.2	21.2	35.2	25.9	
Sep 13	21.6	21.5	21.5	21.8	21.6	21.7	21.6	21.8	21.7	21.5	21.6	21.6	21.3	21.2	21.7	21.7	21.7	21.7	21.5	21.6	21.8	21.7	21.8	21.2	21.8	21.6	21.6	
Sep 14	21.7	21.8	21.6	21.7	21.8	21.7	21.7	21.6	21.9	22.2	21.8	21.2	21.8	22.0	22.0	22.1	22.2	22.6	22.1	21.5	21.3	21.4	21.7	21.7	21.2	22.6	21.8	
Sep 15	21.8	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.3	21.8	21.8	22.1	22.2	21.7	22.4	25.0	32.5	35.9	37.6	37.3	36.7	36.1	35.4	34.8	21.3	37.6	26.6	
Sep 16	34.1	33.6	33.1	32.4	31.7	31.1	30.5	30.2	30.2	31.4	33.4	35.1	36.0	37.2	38.5	39.8	40.7	41.0	40.5	38.5	36.5	35.1	33.8	32.7	30.2	41.0	34.9	
Sep 17	32.1	31.6	31.1	30.8	30.4	30.1	29.9	29.5	29.2	29.7	31.7	34.0	36.0	37.6	38.8	39.5	39.9	39.9	39.2	38.2	37.2	36.0	35.3	34.7	29.2	39.9	34.3	
Sep 18	34.2	34.2	33.8	32.6	31.7	31.0	30.3	29.6	29.3	29.5	30.9	32.2	33.1	25.7	21.9	21.6	21.3	21.5	21.2	20.9	20.9	20.2	19.6	19.7	19.6	34.2	27.0	
Sep 19	19.7	19.7	19.7	19.8	19.8	19.8	19.9	19.8	19.9	19.6	20.1	20.5	21.0	21.4	21.2	21.4	21.3	21.2	21.0	20.8	20.5	20.2	19.5	19.6	19.5	19.6	21.4	20.3
Sep 20	19.7	19.7	19.8	19.8	19.8	19.8	19.9	19.9	19.7	19.7	20.2	20.7	21.1	21.6	21.6	21.7	21.6	21.4	21.3	21.0	20.5	19.6	19.8	19.7	19.6	21.7	20.4	
Sep 21	19.7	19.8	19.8	19.9	19.8	19.9	19.9	19.9	19.8	19.2	19.9	20.7	21.1	21.5	21.9	21.8	21.7	21.6	21.5	21.2	21.3	21.3	21.0	20.9	19.2	21.9	20.6	
Sep 22	20.6	19.9	19.3	19.7	19.6	19.7	19.7	19.8	19.6	19.8	20.4	21.1	21.8	22.0	21.2	21.4	21.5	21.5	21.8	21.3	21.4	21.3	21.1	21.0	19.3	22.0	20.7	
Sep 23	20.7	19.7	19.7	19.8	19.8	19.7	19.8	19.8	19.6	19.9	20.5	21.1	21.8	22.0	21.8	21.4	21.6	21.5	21.2	21.2	21.2	20.9	20.8	20.6	19.6	22.0	20.7	
Sep 24	20.4	19.9	19.4	19.5	19.7	19.6	19.7	19.7	19.4	19.7	20.4	20.8	21.1	21.1	21.1	20.9	20.9	20.6	20.6	20.3	19.6	19.8	19.8	19.4	19.4	21.1	20.2	
Sep 25	19.9	19.8	19.9	19.9	20.0	19.9	19.9	19.8	19.7	19.7	20.2	20.6	21.0	21.5	21.8	21.8	21.4	21.4	21.4	21.4	21.4	21.4	21.3	21.2	19.7	21.8	20.7	
Sep 26	21.1	20.9	20.8	20.6	20.1	19.6	19.6	19.7	19.6	20.0	20.5	20.9	21.3	21.4	21.7	22.0	21.9	21.4	21.3	21.2	20.9	20.8	20.2	19.6	19.6	22.0	20.7	
Sep 27	19.6	19.7	19.7	19.6	19.4	19.4	19.6	19.5	19.5	19.9	20.4	20.6	20.7	20.8	21.0	21.1	21.1	21.0	20.9	20.6	19.7	19.6	19.5	19.5	19.4	21.1	20.1	
Sep 28	19.6	19.6	19.5	19.3	19.6	19.5	19.4	19.4	19.3	<b>18.3</b>	19.4	19.3	19.5	19.3	19.2	19.4	19.3	19.4	19.5	19.4	19.6	19.5	19.5	19.6	<b>18.3</b>	19.6	<b>19.4</b>	
Sep 29	19.5	19.6	19.6	19.5	19.6	19.6	19.5	19.6	19.5	19.5	19.4	19.5	19.4	19.4	19.1	19.3	19.5	19.4	19.5	19.6	19.6	19.7	19.7	19.6	19.1	19.7	19.5	
Sep 30	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.4	20.0	20.3	20.5	20.8	21.2	21.4	21.6	21.4	21.2	20.4	19.6	19.8	19.7	19.8	19.4	21.6	20.1	
Diurnal Maximum	35.2	34.4	33.8	32.6	31.7	31.1	30.5	30.2	30.7	32.1	34.5	36.9	38.9	40.3	40.8	41.6	41.9	42.4	42.0	41.0	39.4	38.1	37.2	36.2				
Diurnal Average	23.1	22.9	22.8	22.6	22.5	22.4	22.3	22.2	22.2	22.4	22.7	23.0	23.3	23.3	23.3	23.7	24.2	24.4	24.4	24.1	23.8	23.5	23.3	23.2				

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

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



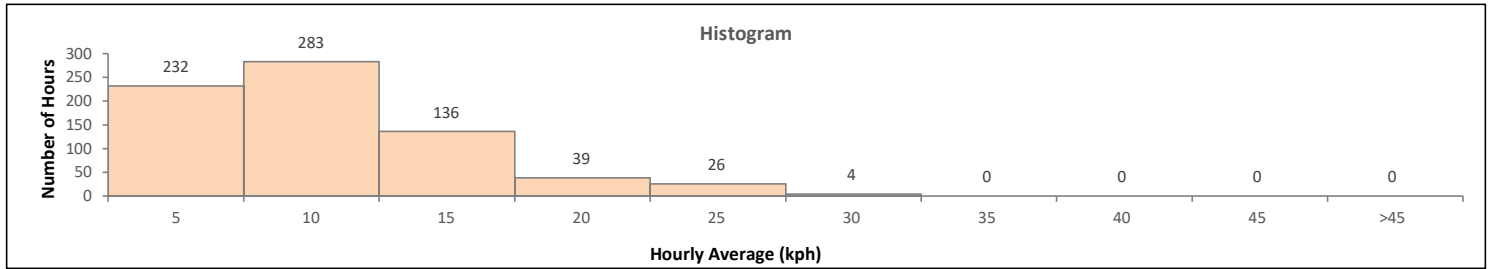
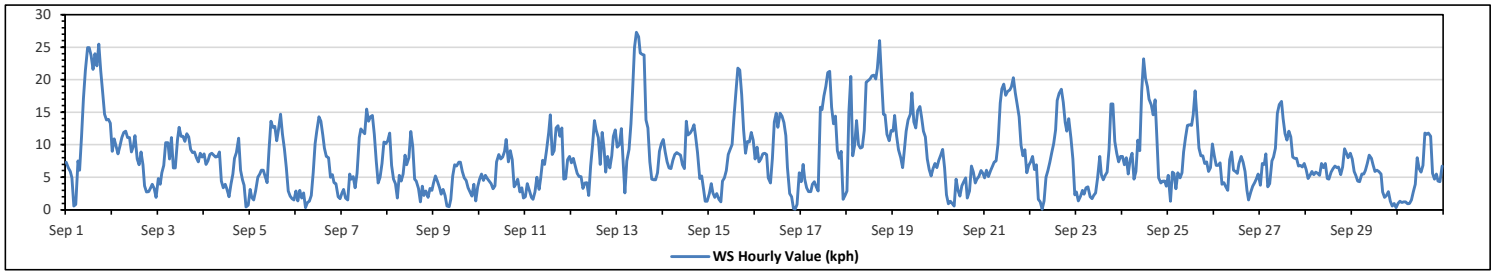
**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**VECTOR WIND SPEED (VWS) in km/hr**

Maximum Hourly Value:	27.3 kph	on Sep 13 at hr 10	Hours in Service:	720
Maximum Daily Value:	15.2 kph	on Sep 18	Hours of Data:	720
Minimum Hourly Value:	0.1 kph	on Sep 16 at hr 21	Hours of Missing Data:	0
Minimum Daily Value:	3.9 kph	on Sep 9	Hours of Calibration:	0
Monthly Average:	8.1 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
Sep 1	7.3	6.4	5.9	4.9	0.6	0.8	7.5	6.1	11.2	17.1	21.4	24.9	24.9	23.7	21.6	24.0	22.1	25.5	21.4	18.1	14.7	13.8	13.9	13.3	0.6	25.5	14.6
Sep 2	9.0	10.9	9.8	8.6	9.8	11.1	11.9	12.1	11.1	11.1	8.9	9.8	11.4	7.8	6.9	8.9	6.9	3.7	2.7	2.8	3.4	3.9	3.3	1.9	1.9	12.1	7.8
Sep 3	4.8	3.9	5.7	6.8	10.3	10.3	7.8	11.1	6.4	6.4	10.8	12.7	11.3	11.3	10.5	11.7	11.2	9.3	8.8	8.9	8.0	7.4	8.7	8.1	3.9	12.7	8.8
Sep 4	8.6	7.0	7.5	8.5	8.7	8.4	8.1	8.2	8.9	4.4	3.4	3.9	3.2	2.0	3.9	5.5	7.9	8.8	11.0	6.1	4.6	3.8	0.4	0.7	0.4	11.0	6.0
Sep 5	3.1	1.9	1.5	2.9	5.0	5.5	6.1	6.1	5.1	4.2	9.3	13.6	12.7	12.8	10.6	12.5	14.7	11.6	9.4	6.5	2.9	2.1	1.7	1.5	1.5	14.7	6.8
Sep 6	2.9	1.4	3.0	1.8	2.6	0.3	1.1	1.3	2.2	5.7	10.2	12.0	14.3	13.6	11.5	9.5	8.2	8.0	5.0	5.4	4.2	4.0	2.0	1.7	0.3	14.3	5.5
Sep 7	2.6	3.1	1.8	1.5	5.5	4.7	5.1	3.4	5.6	11.1	12.4	12.0	11.7	15.5	13.6	14.3	14.5	11.6	7.5	4.1	5.0	7.1	10.4	10.2	1.5	15.5	8.1
Sep 8	10.6	11.8	6.8	4.7	4.0	1.8	5.3	4.4	5.5	8.4	6.9	8.0	12.0	9.8	4.7	4.4	3.3	1.2	3.6	2.2	2.9	1.9	3.3	3.0	1.2	12.0	5.4
Sep 9	4.1	5.2	4.4	3.4	2.4	3.1	2.2	0.6	0.5	1.6	5.2	6.9	6.7	7.3	7.3	5.9	4.9	4.5	3.4	2.7	2.1	3.9	1.4	3.5	0.5	7.3	<b>3.9</b>
Sep 10	4.7	5.5	4.5	5.3	4.8	4.4	4.0	3.2	3.7	7.4	8.5	7.8	8.1	9.0	10.8	7.4	9.1	7.7	3.5	3.9	4.7	2.7	3.4	1.8	1.8	10.8	5.7
Sep 11	2.0	4.0	2.9	1.9	1.6	2.7	5.0	3.1	4.9	7.6	7.0	9.1	11.9	14.6	8.5	9.1	12.6	12.9	11.3	12.6	4.7	4.8	7.7	8.2	1.6	14.6	7.1
Sep 12	7.2	7.9	6.7	5.6	5.1	5.1	3.3	4.1	4.2	2.2	6.7	9.9	13.7	12.3	11.1	7.0	11.9	9.4	5.8	8.2	6.4	8.3	11.3	12.3	2.2	13.7	7.7
Sep 13	9.6	10.0	12.5	7.9	2.6	7.5	9.3	13.2	18.2	24.9	<b>27.3</b>	26.6	24.1	23.9	23.8	13.8	12.6	7.4	4.7	4.6	4.6	5.7	9.0	10.2	2.6	<b>27.3</b>	13.1
Sep 14	10.8	8.9	7.4	6.4	6.3	7.6	8.5	8.8	8.6	8.4	6.9	6.3	13.6	11.5	11.8	12.3	13.1	11.3	8.8	4.8	5.2	3.1	1.3	1.3	1.3	13.6	8.0
Sep 15	2.5	4.0	2.6	1.9	2.5	1.6	1.2	4.4	4.9	6.0	8.5	9.3	10.0	14.3	18.1	21.8	21.5	17.7	12.3	8.7	10.5	10.4	11.9	10.7	1.2	21.8	9.1
Sep 16	7.8	9.6	7.4	7.8	8.6	8.7	8.5	4.9	4.1	7.9	13.5	14.8	12.7	14.8	14.4	13.4	11.4	6.5	2.5	2.0	0.2	<b>0.1</b>	0.8	5.7	<b>0.1</b>	14.8	7.8
Sep 17	4.3	7.0	4.7	3.4	2.8	2.8	3.9	4.3	3.5	2.9	15.8	15.4	17.5	19.0	21.1	21.3	15.8	13.2	14.4	9.1	7.9	9.0	1.6	2.2	1.6	21.3	9.3
Sep 18	2.9	15.0	20.5	8.3	9.9	13.7	10.0	9.5	9.6	12.2	19.6	19.8	20.1	20.6	20.7	20.1	21.7	26.0	20.2	14.7	14.6	11.6	10.6	12.2	2.9	26.0	<b>15.2</b>
Sep 19	12.1	14.5	11.4	9.2	8.0	6.5	9.0	12.1	13.8	14.7	18.0	13.5	12.6	15.2	15.9	14.3	12.1	11.2	7.8	6.2	5.2	6.3	7.1	6.5	5.2	18.0	11.0
Sep 20	7.6	8.4	9.3	6.5	2.3	0.9	1.3	1.0	0.6	4.7	3.0	2.1	3.7	4.3	4.9	1.8	2.9	6.7	5.8	4.1	4.7	5.1	6.0	5.6	0.6	9.3	4.3
Sep 21	4.9	6.1	5.1	6.0	6.7	7.3	7.5	10.1	16.4	18.6	19.3	17.6	18.2	18.4	18.9	20.3	18.0	16.2	14.3	9.9	8.3	9.2	5.7	6.8	4.9	20.3	12.1
Sep 22	7.4	8.2	6.2	6.9	1.6	1.2	<b>0.1</b>	1.4	5.0	6.0	7.3	8.8	10.2	12.3	16.8	17.9	18.5	16.5	13.4	12.1	14.0	11.0	7.8	2.3	<b>0.1</b>	18.5	8.9
Sep 23	2.7	1.4	2.1	3.0	2.4	3.4	3.5	2.0	1.7	2.2	2.6	4.8	8.2	5.4	4.6	5.3	5.8	9.3	16.3	16.3	10.5	8.7	7.4	8.2	1.4	16.3	5.7
Sep 24	8.2	6.9	8.0	5.5	7.7	8.7	4.7	5.9	10.7	9.1	18.2	23.2	20.2	18.9	17.0	16.1	14.6	16.9	11.6	4.9	4.1	4.4	4.4	3.6	3.6	23.2	10.6
Sep 25	5.3	1.3	5.8	5.6	3.2	5.7	4.9	5.7	8.9	11.1	13.0	13.1	13.0	14.6	18.3	14.0	9.5	8.3	8.3	7.1	7.4	5.9	6.5	10.1	1.3	18.3	8.6
Sep 26	8.3	6.8	6.8	7.2	3.9	4.2	3.5	3.0	7.7	8.9	6.1	5.9	5.6	7.1	8.2	7.3	5.9	3.0	1.5	2.7	3.6	4.2	4.7	5.5	1.5	8.9	5.5
Sep 27	3.8	7.1	7.0	8.6	3.5	4.0	7.5	8.1	9.5	14.8	16.2	16.7	14.0	11.7	10.7	12.1	11.2	8.1	7.9	7.9	6.7	6.8	6.6	7.1	3.5	16.7	9.1
Sep 28	6.2	4.8	5.3	5.9	5.4	5.8	5.6	5.3	7.1	6.5	7.1	4.8	4.7	5.8	6.3	6.7	6.5	6.6	5.4	6.6	9.4	8.7	8.0	8.7	4.7	9.4	6.4
Sep 29	7.8	5.9	5.3	4.4	4.3	5.5	5.5	6.0	7.1	8.4	7.9	6.9	5.9	6.1	5.9	5.5	2.7	1.9	2.2	2.8	1.3	0.6	1.0	0.3	0.3	8.4	4.6
Sep 30	1.0	1.3	1.1	1.2	1.2	0.9	1.0	1.5	2.8	3.9	8.0	6.3	5.8	6.8	11.8	11.6	11.8	11.3	5.6	4.7	5.5	4.4	4.3	6.7	0.9	11.8	5.0
Diurnal Maximum	12.1	15.0	20.5	9.2	10.3	13.7	11.9	13.2	18.2	24.9	27.3	26.6	24.9	23.9	23.8	24.0	22.1	26.0	21.4	18.1	14.7	13.8	13.9	13.3			
Diurnal Average	6.0	6.5	6.3	5.4	4.8	5.1	5.4	5.7	7.0	8.6	11.0	11.6	12.1	12.3	12.3	11.9	11.4	10.4	8.5	7.0	6.2	6.0	5.7	6.0			

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

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

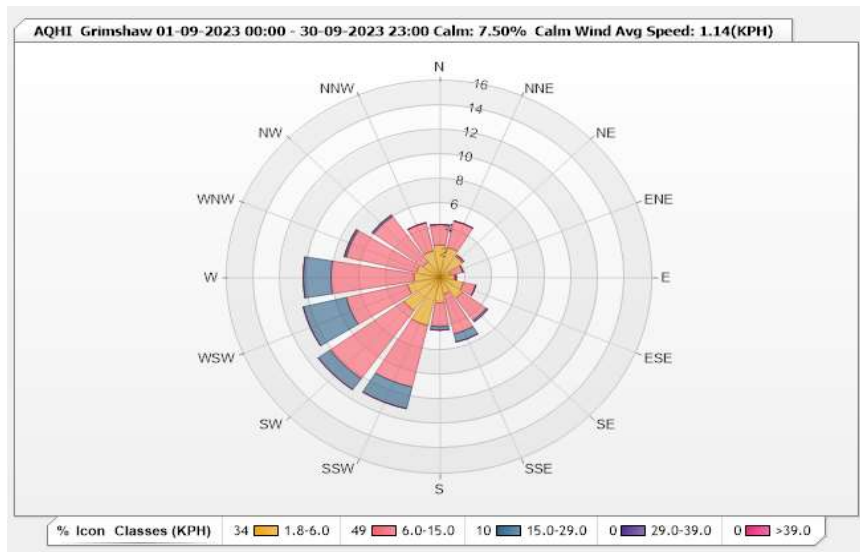


Station: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 09-2023

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

Calm (WS<1.8kph): 7.50% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.64	1.67	0	0	0	4.31
NNE	2.5	2.22	0	0	0	4.72
NE	2.08	0.14	0	0	0	2.22
ENE	0.83	0.97	0	0	0	1.8
E	1.11	0.14	0	0	0	1.25
ESE	1.81	0.97	0	0	0	2.78
SE	2.08	2.22	0.14	0	0	4.44
SSE	1.39	3.33	0.69	0	0	5.41
S	2.08	1.94	0.28	0	0	4.3
SSW	4.03	5.14	1.81	0	0	10.98
SW	3.33	6.81	1.11	0	0	11.25
WSW	2.5	4.72	3.33	0	0	10.55
W	1.94	6.25	2.08	0	0	10.27
WNW	1.81	5.42	0.14	0	0	7.37
NW	1.53	4.58	0.14	0	0	6.25
NNW	2.22	2.36	0	0	0	4.58
Summary	33.88	48.88	9.72	0	0	92.48





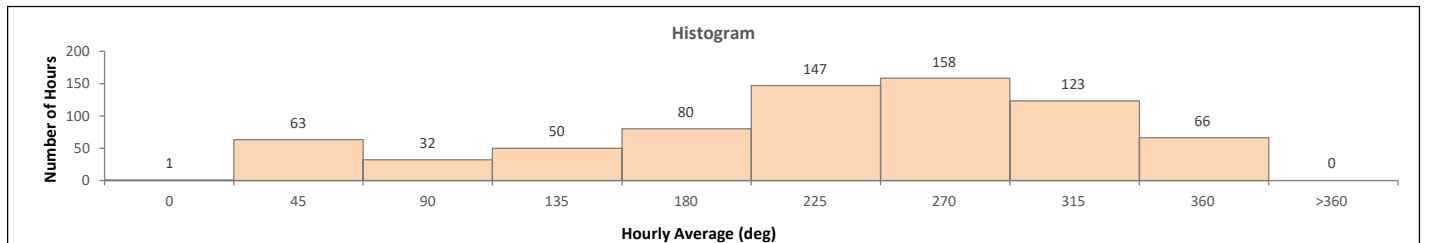
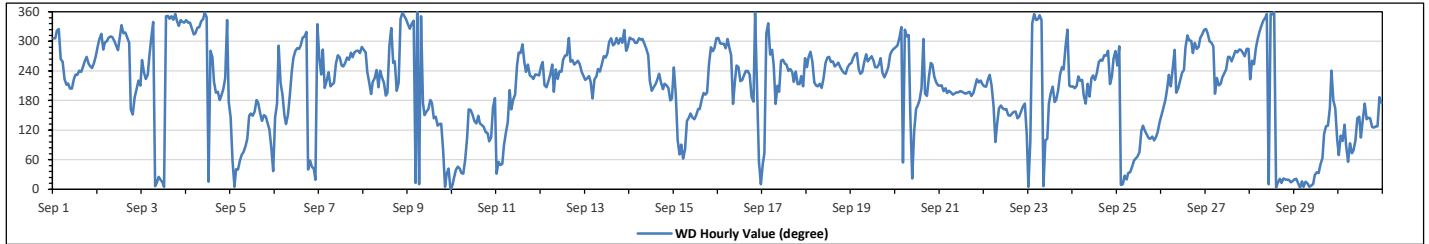
**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**  
**WIND DIRECTION (VWD) in sector**

Monthly Average:	245 (WSW) degree	Hours in Service:	720
		Hours of Data:	720
		Hours of Missing Data:	0
		Hours of Calibration:	0
		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant	
Sep 1	NW	NW	NW	NW	W	WSW	SW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	W	251	WSW	
Sep 2	WNW	WNW	NW	WNW	WNW	WNW	NW	NW	NW	WNW	WNW	W	NW	NNW	NW	NW	NW	WNW	SSE	SSE	S	SSW	SW	SSW	286	WNW	
Sep 3	W	SW	SW	SW	W	NW	NNW	N	NNE	NNE	NNE	NNE	N	N	N	NNW	N	NNW	N	NNW	NNW	NNW	NNW	NNW	336	NNW	
Sep 4	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNE	W	W	SW	SSW	S	S	SSW	SW	NNW	S	300	WNW	
Sep 5	SE	ENE	N	NE	NE	ENE	ENE	E	E	SSE	SSE	SSE	SSE	S	S	SSE	SE	SSE	SE	SE	SE	ESE	E	NE	112	ESE	
Sep 6	SE	S	WNW	SW	S	SSE	SE	SSE	S	WSW	W	W	WNW	WNW	WNW	NNW	NW	NW	NE	ENE	NE	NNE	NNE	NNW	276	W	
Sep 7	W	SW	WNW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	W	W	WSW	WSW	WSW	W	W	W	W	W	W	W	W	255	WSW	
Sep 8	W	W	SW	SW	S	SW	SW	WSW	WSW	WSW	WSW	SW	SW	S	SSW	WNW	NW	WSW	WSW	SSW	SW	NNW	N	N	248	WSW	
Sep 9	NNW	NW	NNW	NNW	NNE	N	N	N	S	SSE	SSE	SSE	S	S	SE	SE	SE	SE	SE	SE	E	N	NNE	NE	N	71	ENE
Sep 10	N	NNE	NE	NE	NE	NNE	NNE	ENE	ESE	ESE	SSE	SSE	SE	SE	SE	SE	SE	SE	ESE	ESE	E	ESE	SSE	S	106	ESE	
Sep 11	NNE	NE	NE	NE	E	ESE	SE	SSW	SSE	S	S	WSW	W	W	WNW	WSW	SW	WSW	SW	SW	SW	SW	SW	SW	221	SW	
Sep 12	WSW	WSW	SSW	SSW	SW	SW	WSW	SSW	WSW	SW	WSW	WSW	W	W	W	NW	WSW	W	WSW	WSW	W	WSW	SW	SW	246	WSW	
Sep 13	SW	SW	SW	SW	S	SW	SW	WSW	WSW	WSW	W	W	WNW	NW	WNW	WNW	NW	WNW	NW	WNW	NW	W	WNW	W	266	W	
Sep 14	NW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	W	SW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	S	S	249	WSW	
Sep 15	WSW	S	E	ENE	E	ENE	E	SE	SE	SSE	SE	SE	SSE	SSE	S	SSW	S	SSW	WSW	WNW	W	WNW	NW	168	SSE		
Sep 16	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	S	SW	WSW	WSW	SW	SW	SW	WSW	WSW	SW	S	S	N	SSW	NE	N	256	WSW	
Sep 17	NE	ENE	NW	NNW	W	WSW	S	SSW	SSW	W	W	WSW	WSW	WSW	WSW	SW	SW	WSW	SSW	SSW	SSW	SSW	W	W	243	WSW	
Sep 18	WSW	W	W	WSW	SW	SSW	SSW	SSW	SSW	SW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	245	WSW	
Sep 19	WSW	W	W	W	WSW	SW	SW	WSW	W	WSW	W	W	WSW	WSW	WSW	W	SW	SW	WSW	W	W	WSW	W	WNW	257	WSW	
Sep 20	NNW	WNW	NW	NNW	NE	NW	NW	NW	SSE	NNE	ESE	SSE	SSE	S	SSW	WNW	SSW	S	SW	WSW	WSW	SW	SW	SSW	243	WSW	
Sep 21	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	202	SSW	
Sep 22	SSW	SSW	SW	SW	SSW	SSE	E	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SSE	SSE	S	ESE	165	SSE	
Sep 23	N	E	NNW	N	NNW	NNW	N	NNW	N	E	E	S	SSW	SSW	S	S	SSW	SW	WSW	WSW	WNW	NW	SSW	SSW	263	W	
Sep 24	SSW	SSW	SSW	SW	SW	S	S	SSW	S	SW	SW	SW	WSW	W	W	W	W	W	W	W	SSW	SW	W	W	232	SW	
Sep 25	WSW	WNW	N	N	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ESE	SE	ESE	ESE	ESE	E	ESE	E	ESE	ESE	SE	SE	76	ENE	
Sep 26	SSE	SSE	S	SSW	SW	SSW	WSW	W	SSW	SSW	SW	SW	WSW	WNW	NW	WNW	WNW	W	WNW	WNW	WNW	NW	NW	NW	256	WSW	
Sep 27	NW	NW	WNW	WNW	WNW	SSW	SW	SSW	SSW	SW	SW	WSW	W	W	WSW	W	W	WNW	W	W	W	W	WNW	WNW	267	W	
Sep 28	SW	W	WSW	WNW	NW	NW	NNW	NNW	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	350	N	
Sep 29	NNE	NNE	NNE	N	NNE	N	NNE	NNE	N	N	NNE	NNE	NE	NE	ENE	ESE	SE	SE	SE	SE	SSW	S	SSE	E	43	NE	
Sep 30	ENE	ESE	E	SE	E	NE	E	ENE	ENE	E	SE	ESE	ESE	SE	S	SE	SE	SE	SE	SE	SE	SE	S	S	121	ESE	

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

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



**Peace River Area Monitoring Program**  
**AQHI - Grimshaw Station - September 2023**  
**Summary of Hourly Averages**

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

<b>WIND SPEED</b>				
Maximum Hourly Value:	27.3 kph	on Sep 13 at hr 10	Hours in Service:	720
Maximum Daily Value:	15.2 kph	on Sep 18	Hours of Data:	720
Minimum Hourly Value:	0.1 kph	on Sep 16 at hr 21	Hours of Missing Data:	0
Minimum Daily Value:	3.9 kph	on Sep 9	Hours of Calibration:	0
Monthly Average:	8.1 kph		Operational Uptime:	100.0

<b>WIND DIRECTION</b>	
Monthly Average:	245 degree (WSW)

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	
Sep 1	7.3	6.4	5.9	4.9	0.6	0.8	7.5	6.1	11.2	17.1	21.4	24.9	24.9	23.7	21.6	24.0	22.1	25.5	21.4	18.1	14.7	13.8	13.9	13.3	0.6	25.5	14.6	
Sep 2	9.0	10.9	9.8	8.6	9.8	11.1	11.9	12.1	11.1	11.1	8.9	9.8	11.4	7.8	6.9	8.9	6.9	3.7	2.7	2.8	3.4	3.9	3.3	1.9	1.9	12.1	7.8	
Sep 3	4.8	3.9	5.7	6.8	10.3	10.3	7.8	11.1	6.4	6.4	10.8	12.7	11.3	11.3	10.5	11.7	11.2	9.3	8.8	8.9	8.0	7.4	8.7	8.1	3.9	12.7	8.8	
Sep 4	8.6	7.0	7.5	8.5	8.7	8.4	8.1	8.2	8.9	4.4	3.4	3.9	3.2	2.0	3.9	5.5	7.9	8.8	11.0	6.1	4.6	3.8	0.4	0.7	0.4	11.0	6.0	
Sep 5	3.1	1.9	1.5	2.9	5.0	5.5	6.1	6.1	5.1	4.2	9.3	13.6	12.7	12.8	10.6	12.5	14.7	11.6	9.4	6.5	2.9	2.1	1.7	1.5	1.5	14.7	6.8	
Sep 6	2.9	1.4	3.0	1.8	2.6	0.3	1.1	1.3	2.2	5.7	10.2	12.0	14.3	13.6	11.5	9.5	8.2	8.0	5.0	5.4	4.2	4.0	2.0	1.7	0.3	14.3	5.5	
Sep 7	2.6	3.1	1.8	1.5	5.5	4.7	5.1	3.4	5.6	11.1	12.4	12.0	11.7	15.5	13.6	14.3	14.5	11.6	7.5	4.1	5.0	7.1	10.4	10.2	1.5	15.5	8.1	
Sep 8	10.6	11.8	6.8	4.7	4.0	1.8	5.3	4.4	5.5	8.4	6.9	8.0	12.0	9.8	4.7	4.4	3.3	1.2	3.6	2.2	2.9	1.9	3.3	3.0	1.2	12.0	5.4	
Sep 9	4.1	5.2	4.4	3.4	2.4	3.1	2.2	0.6	0.5	1.6	5.2	6.9	6.7	7.3	7.3	7.3	5.9	4.9	4.5	3.4	2.7	2.1	3.9	1.4	3.5	0.5	7.3	3.9
Sep 10	4.7	5.5	4.5	5.3	4.8	4.4	4.0	3.2	3.7	7.4	8.5	7.8	8.1	9.0	10.8	7.4	9.1	7.7	3.5	3.9	4.7	2.7	3.4	1.8	1.8	10.8	5.7	
Sep 11	2.0	4.0	2.9	1.9	1.6	2.7	5.0	3.1	4.9	7.6	7.0	9.1	11.9	14.6	8.5	9.1	12.6	12.9	11.3	12.6	4.7	4.8	7.7	8.2	1.6	14.6	7.1	
Sep 12	7.2	7.9	6.7	5.6	5.1	5.1	3.3	4.1	4.2	2.2	6.7	9.9	13.7	12.3	11.1	7.0	11.9	9.4	5.8	8.2	6.4	8.3	11.3	12.3	2.2	13.7	7.7	
Sep 13	9.6	10.0	12.5	7.9	2.6	7.5	9.3	13.2	18.2	24.9	27.3	26.6	24.1	23.9	23.8	13.8	12.6	7.4	4.7	4.6	4.6	5.7	9.0	10.2	2.6	27.3	13.1	
Sep 14	10.8	8.9	7.4	6.4	6.3	7.6	8.5	8.8	8.6	8.4	6.9	6.3	13.6	11.5	11.8	12.3	13.1	11.3	8.8	4.8	5.2	3.1	1.3	1.3	1.3	13.6	8.0	
Sep 15	2.5	4.0	2.6	1.9	2.5	1.6	1.2	4.4	4.9	6.0	8.5	9.3	10.0	14.3	18.1	21.8	21.5	17.7	12.3	8.7	10.5	10.4	11.9	10.7	1.2	21.8	9.1	
Sep 16	7.8	9.6	7.4	7.8	8.6	8.7	8.5	4.9	4.1	7.9	13.5	14.8	12.7	14.8	14.4	13.4	11.4	6.5	2.5	2.0	0.2	0.1	0.8	5.7	0.1	14.8	7.8	
Sep 17	4.3	7.0	4.7	3.4	2.8	2.8	3.9	4.3	3.5	2.9	15.8	15.4	17.5	19.0	21.1	21.3	15.8	13.2	14.4	9.1	7.9	9.0	1.6	2.2	1.6	21.3	9.3	
Sep 18	2.9	15.0	20.5	8.3	9.9	13.7	10.0	9.5	9.6	12.2	19.6	19.8	20.1	20.6	20.7	20.1	21.7	26.0	20.2	14.7	14.6	11.6	10.6	12.2	2.9	26.0	15.2	
Sep 19	12.1	14.5	11.4	9.2	8.0	6.5	9.0	12.1	13.8	14.7	18.0	13.5	12.6	15.2	15.9	14.3	12.1	11.2	7.8	6.2	5.2	6.3	7.1	6.5	5.2	18.0	11.0	
Sep 20	7.6	8.4	9.3	6.5	2.3	0.9	1.3	1.0	0.6	4.7	3.0	2.1	3.7	4.3	4.9	1.8	2.9	6.7	5.8	4.1	4.7	5.1	6.0	5.6	0.6	9.3	4.3	
Sep 21	4.9	6.1	5.1	6.0	6.7	7.3	7.5	10.1	16.4	18.6	19.3	17.6	18.2	18.4	18.9	20.3	18.0	16.2	14.3	9.9	8.3	9.2	5.7	6.8	4.9	20.3	12.1	
Sep 22	7.4	8.2	6.2	6.9	1.6	1.2	0.1	1.4	5.0	6.0	7.3	8.8	10.2	12.3	16.8	17.9	18.5	16.5	13.4	12.1	14.0	11.0	7.8	2.3	0.1	18.5	8.9	
Sep 23	2.7	1.4	2.1	3.0	2.4	3.4	3.5	2.0	1.7	2.2	2.6	4.8	8.2	5.4	4.6	5.3	5.8	9.3	16.3	16.3	10.5	8.7	7.4	8.2	1.4	16.3	5.7	
Sep 24	8.2	6.9	8.0	5.5	7.7	8.7	4.7	5.9	10.7	9.1	18.2	23.2	20.2	18.9	17.0	16.1	14.6	16.9	11.6	4.9	4.1	4.4	4.4	3.6	3.6	23.2	10.6	
Sep 25	5.3	1.3	5.8	5.6	3.2	5.7	4.9	5.7	8.9	11.1	13.0	13.1	13.0	14.6	18.3	14.0	9.5	8.3	8.3	7.1	7.4	5.9	6.5	10.1	1.3	18.3	8.6	
Sep 26	8.3	6.8	6.8	7.2	3.9	4.2	3.5	3.0	7.7	8.9	6.1	5.9	5.6	7.1	8.2	7.3	5.9	3.0	1.5	2.7	3.6	4.2	4.7	5.5	1.5	8.9	5.5	
Sep 27	3.8	7.1	7.0	8.6	3.5	4.0	7.5	8.1	9.5	14.8	16.2	16.7	14.0	11.7	10.7	12.1	11.2	8.1	7.9	7.9	6.7	6.8	6.6	7.1	3.5	16.7	9.1	
Sep 28	6.2	4.8	5.3	5.9	5.4	5.8	5.6	5.3	7.1	6.5	7.1	4.8	4.7	5.8	6.3	6.7	6.5	6.6	5.4	6.6	9.4	8.7	8.0	8.7	4.7	9.4	6.4	
Sep 29	7.8	5.9	5.3	4.4	4.3	5.5	5.5	6.0	7.1	8.4	7.9	6.9	5.9	6.1	5.9	5.5	2.7	1.9	2.2	2.8	1.3	0.6	1.0	0.3	0.3	8.4	4.6	
Sep 30	1.0	1.3	1.1	1.2	1.2	0.9	1.0	1.5	2.8	3.9	8.0	6.3	5.8	6.8	11.8	11.6	11.8	11.3	5.6	4.7	5.5	4.4	4.3	6.7	0.9	11.8	5.0	
	ENE	ESE	E	SE	E	NE	E	ENE	ENE	E	SE	SE	ESE	E	SE	SE	SE	SE	SE	SE	SE	SE	S	S				

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

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

## END OF REPORT

This page, 157 of 157, ends the September 2023 Monthly Ambient Air Quality Monitoring Report.



## Peace River Area Monitoring Program

# SEPTEMBER 2023

## Monthly Ambient Air Quality Monitoring Integrated Sampling Report

**PRAMP-202309-INTEGRATED**

October 23, 2023

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**October 23, 2023**

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

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

Enclosed is the September 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](mailto: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 <sub>2</sub> S, SO <sub>2</sub> )				√

### 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 <sub>2</sub> S, SO <sub>2</sub>	PRAMP	Bureau Veritas	PRAMP	PRAMP



## Monitoring Notes during the Month of September 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.
- Two canisters were collected this month.

Station	Parameter	Date	Time	Concentration (ppm)	Canister Triggered Time
842-B	Non-methane HC	20-Sept	14:35	0.31	14:40
Reno-B	Non-methane HC	29-Sept	19:35	0.32	19:40

- **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 September and October were installed on September 31. They are scheduled to be replaced by the end of October.

- **Passives H<sub>2</sub>S and SO<sub>2</sub> Sampling Program**

- The passive sample filters were installed at the stations on September 1 and were removed on September 29.

## Revisions to Alberta's Ambient Air Quality Data Warehouse

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

## Deviations from Authorized Monitoring Methods

There were no deviations from authorized monitoring methods.

## Certification

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

A handwritten signature in blue ink, appearing to read 'Lily Lin', written in a cursive style.

Lily Lin, Technical Program Manager, PRAMP Airshed

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

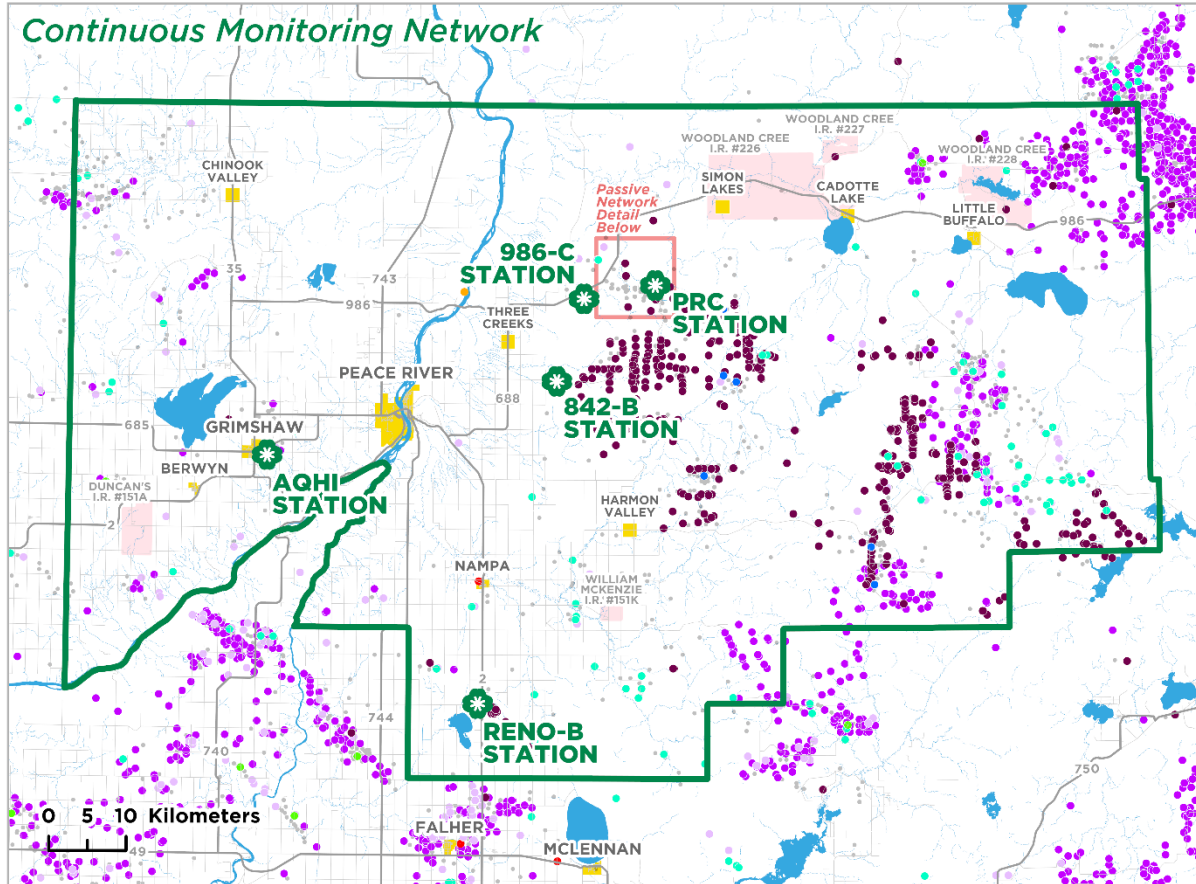
I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements. I also certify that at the time of this report's submission, all air data have been electronically uploaded to Alberta ETS as required by the AMD.

A handwritten signature in blue ink, appearing to read 'Michael Bisaga', written in a cursive style.

Michael Bisaga, Technical Program Manager, PRAMP Airshed

October 23, 2023

## Map of PRAMP Continuous Monitoring and Integrated Sampling Network



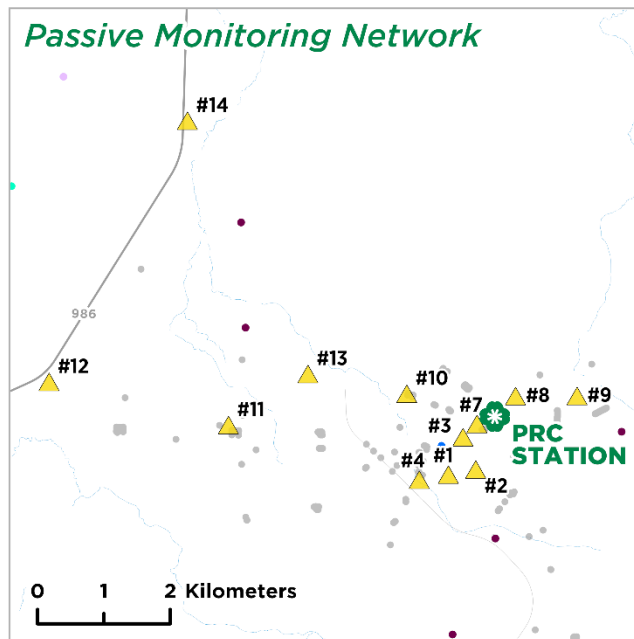
### Legend

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

### Industrial Facilities

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

Service Layer Credit: Esri, CGIAR, USGS, Esri, USGS



## INTEGRATED SAMPLING RESULTS SUMMARY

- **NMHC analytical results**

- 842-B September 20, 2023

<b>Sample Date/Time</b>	<b>2023-09-20 @14:40</b>							
<b>Canister Sample</b>	<b>Non-methane Hydrocarbon</b>							
<b>Canister ID</b>	<b>31823</b>							
<b>Method</b>	<b>NA-025</b>		<b>Method</b>	<b>NA-024</b>		<b>Method</b>	<b>AC-058</b>	
Maximum Reading (ppmv)	2.5	Methane	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	17.2	Acetone

**Note:** “-” indicates all readings were below the detectable limit.

- Reno-B September 29, 2023

<b>Sample Date/Time</b>	<b>2023-09-29 @19:40</b>							
<b>Canister Sample</b>	<b>Non-methane Hydrocarbon</b>							
<b>Canister ID</b>	<b>29038</b>							
<b>Method</b>	<b>NA-025</b>		<b>Method</b>	<b>NA-024</b>		<b>Method</b>	<b>AC-058</b>	
Maximum Reading (ppmv)	1.9	Methane	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	5.6	Acetone

- **Passive analytical results**

	<b>H<sub>2</sub>S</b>		<b>SO<sub>2</sub></b>	
<b>Minimum (ppb)</b>	0.22	#7	0.2	#1
<b>Maximum (ppb)</b>	0.69	#13	0.4	#2
<b>Average (ppb)</b>	0.35	-	0.27	-

## ANALYTICAL SAMPLING RESULTS

## NMHC Canisters – VOCs

**PEACE RIVER AREA MONITORING PROGRAM**  
**842-B Site -September 2023**  
**Volatile Organic Compounds (VOCs) Results**

Sample Date/Time Canister Sample Canister ID		2023-09-20 @14:40 Non-methane Hydrocarbon 31823						
Method		NA-025		Method NA-024		Method AC-058		
Maximum Reading (ppmv)		2.5	Methane	Maximum Reading (ppmv) - -		Maximum Reading (ppmv) 17.2 Acetone		
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	Result (ppbv)	RDL (ppbv)
1-Butene	< 0.13	0.13	2,5-Dimethylthiophene	< 0.4	0.4	1,1,1-Trichloroethane	< 0.03	0.03
Acetylene	< 0.11	0.10	2-Ethylthiophene	< 0.3	0.3	1,1,2,2-Tetrachloroethane	< 0.03	0.03
cis-2-Butene	< 0.05	0.05	2-Methylthiophene	< 0.3	0.3	1,1,2-Trichloroethane	< 0.03	0.03
Ethane	< 0.1	0.1	3-Methylthiophene	< 0.4	0.4	1,1-Dichloroethane	< 0.03	0.03
Ethylacetylene	< 0.08	0.08	Butyl mercaptan	< 0.4	0.4	1,1-Dichloroethylene	< 0.03	0.03
Ethylene	< 0.09	0.09	Carbon disulphide	< 0.3	0.3	1,2,3-Trimethylbenzene	< 0.07	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	0.11	0.04
Methane	<b>2.5</b>	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	< 0.09	0.09	Ethyl sulphide	< 0.4	0.4	1,2-Dichloroethane	< 0.04	0.04
Propylene	< 0.1	0.1	Hydrogen sulphide	<b>&lt; 0.1</b>	0.1	1,2-Dichloropropane	< 0.04	0.04
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.4	0.4	1,3,5-Trimethylbenzene	< 0.04	0.04
trans-2-Butene	< 0.12	0.12	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene	0.36	0.04
			Methyl mercaptan	< 0.3	0.3	1,3-Dichlorobenzene	< 0.5	0.5
			Pentyl mercaptan	< 0.5	0.5	1,4-Dichlorobenzene	< 0.5	0.5
			Propyl mercaptan	< 0.5	0.5	1,4-Dioxane	< 0.7	0.7
			tert-Butyl mercaptan	< 0.4	0.4	1-Butene/Isobutylene	2.39	0.08
			Thiophene	< 0.3	0.3	1-Hexene/2-Methyl-1-pentene	0.19	0.09
						1-Pentene	0.29	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	< 0.12	0.12
						2,3-Dimethylpentane	< 0.03	0.03
						2,4-Dimethylpentane	< 0.04	0.04
						2-Methylheptane	< 0.03	0.03
						2-Methylhexane	< 0.04	0.04
						2-Methylpentane	0.13	0.03
						3-Methylheptane	< 0.04	0.04
						3-Methylhexane	< 0.03	0.03
						3-Methylpentane	0.09	0.03
						Acetone	<b>17.2</b>	0.5
						Acrolein	2.2	0.4
						Benzene	4.8	0.04
						Benzyl chloride	< 0.4	0.4
						Bromodichloromethane	< 0.04	0.04
						Bromoform	< 0.03	0.03
						Bromomethane	< 0.03	0.03
						Carbon disulfide	< 0.03	0.03
						Carbon tetrachloride	0.04	0.03
						Chlorobenzene	< 0.03	0.03
						Chloroethane	< 0.03	0.03
						Chloroform	< 0.03	0.03
						Chloromethane	0.85	0.05
						cis-1,2-Dichloroethene	< 0.03	0.03
						cis-1,3-Dichloropropene	< 0.04	0.04
						cis-2-Butene	0.06	0.04
						cis-2-Pentene	0.03	0.03
						Cyclohexane	< 0.05	0.05
						Cyclopentane	0.26	0.03
						Dibromochloromethane	< 0.03	0.03
						Ethanol	2.8	0.7
						Ethyl acetate	< 0.4	0.4
						Ethylbenzene	0.1	0.04
						Freon-11	0.26	0.03
						Freon-113	0.05	0.03
						Freon-114	< 0.04	0.04



**PEACE RIVER AREA MONITORING PROGRAM**  
**842-B Site -September 2023**  
**Volatile Organic Compounds (VOCs) Results**

Sample Date/Time Canister Sample Canister ID		2023-09-20 @14:40 Non-methane Hydrocarbon 31823						
Method		NA-025		Method NA-024		Method AC-058		
Maximum Reading (ppmv)		2.5	Methane	Maximum Reading (ppmv) - -		Maximum Reading (ppmv) 17.2 Acetone		
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	Result (ppbv)	RDL (ppbv)
						Freon-12	0.36	0.04
						Hexachloro-1,3-butadiene	< 0.4	0.39
						Isobutane	1.22	0.04
						Isopentane	0.77	0.05
						Isoprene	0.56	0.03
						Isopropyl alcohol	1.2	0.4
						Isopropylbenzene	< 0.05	0.05
						m,p-Xylene	0.2	0.05
						m-Diethylbenzene	< 0.03	0.03
						m-Ethyltoluene	< 0.04	0.04
						Methyl butyl ketone	< 0.5	0.52
						Methyl ethyl ketone	1.5	0.4
						Methyl isobutyl ketone	< 0.4	0.4
						Methyl methacrylate	< 0.11	0.10
						Methyl tert butyl ether	< 0.04	0.04
						Methylcyclohexane	< 0.03	0.03
						Methylcyclopentane	0.07	0.07
						Methylene chloride	< 0.4	0.4
						n-Butane	1.49	0.03
						n-Decane	< 0.08	0.08
						n-Dodecane	< 0.4	0.4
						n-Heptane	0.11	0.05
						n-Hexane	0.23	0.04
						n-Nonane	< 0.05	0.05
						n-Octane	0.1	0.03
						n-Pentane	0.71	0.1
						n-Propylbenzene	< 0.08	0.08
						n-Undecane	< 0.7	0.7
						Naphthalene	< 0.4	0.4
						o-Ethyltoluene	0.03	0.03
						o-Xylene	0.09	0.04
						p-Diethylbenzene	< 0.03	0.03
						p-Ethyltoluene	< 0.05	0.05
						Styrene	< 0.05	0.05
						Tetrachloroethylene	< 0.03	0.03
						Tetrahydrofuran	< 0.4	0.4
						Toluene	2.01	0.04
						trans-1,2-Dichloroethylene	3.8	0.08
						trans-1,3-Dichloropropylene	< 0.03	0.03
						trans-2-Butene	< 0.04	0.04
						trans-2-Pentene	< 0.03	0.03
						Trichloroethylene	< 0.03	0.03
						Vinyl acetate	< 0.4	0.4
						Vinyl chloride	< 0.03	0.03





PEACE RIVER AREA MONITORING PROGRAM

842-B Site -September 2023

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID			2023-09-20 @14:40 Non-methane Hydrocarbon - BLANK 28941					
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	4.1	Acetone
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	< 0.05	0.05
Isobutane	< 0.1	0.1	Carbonyl sulphide	< 0.3	0.3	1,2,4-Trichlorobenzene	< 0.3	0.3
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.2	0.2	1,2,4-Trimethylbenzene	< 0.03	0.03
Methane	< 0.1	0.1	Dimethyl sulphide	< 0.2	0.2	1,2-Dibromoethane	< 0.02	0.02
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.3	0.3	1,2-Dichlorobenzene	< 0.03	0.03
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.3	0.3	1,2-Dichloroethane	< 0.03	0.03
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1	0.1	1,2-Dichloropropane	< 0.03	0.03
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.3	0.3	1,3,5-Trimethylbenzene	< 0.03	0.03
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene	< 0.03	0.03
			Methyl mercaptan	< 0.2	0.2	1,3-Dichlorobenzene	< 0.4	0.4
			Pentyl mercaptan	< 0.4	0.4	1,4-Dichlorobenzene	< 0.4	0.4
			Propyl mercaptan	< 0.4	0.4	1,4-Dioxane	< 0.5	0.5
			tert-Butyl mercaptan	< 0.3	0.3	1-Butene/Isobutylene	< 0.06	0.06
			Thiophene	< 0.2	0.2	1-Hexene/2-Methyl-1-pentene	< 0.07	0.07
						1-Pentene	< 0.03	0.03
						2,2,4-Trimethylpentane	< 0.02	0.02
						2,2-Dimethylbutane	< 0.02	0.02
						2,3,4-Trimethylpentane	< 0.02	0.02
						2,3-Dimethylbutane	< 0.09	0.09
						2,3-Dimethylpentane	< 0.02	0.02
						2,4-Dimethylpentane	< 0.03	0.03
						2-Methylheptane	< 0.02	0.02
						2-Methylhexane	< 0.03	0.03
						2-Methylpentane	< 0.02	0.02
						3-Methylheptane	< 0.03	0.03
						3-Methylhexane	< 0.02	0.02
						3-Methylpentane	< 0.02	0.02
						Acetone	4.1	0.4
						Acrolein	< 0.3	0.3
						Benzene	< 0.03	0.03
						Benzyl chloride	< 0.3	0.3
						Bromodichloromethane	< 0.03	0.03
						Bromoform	< 0.02	0.02
						Bromomethane	< 0.02	0.02
						Carbon disulfide	< 0.02	0.02
						Carbon tetrachloride	< 0.02	0.02
						Chlorobenzene	< 0.02	0.02
						Chloroethane	< 0.02	0.02
						Chloroform	< 0.02	0.02
						Chloromethane	< 0.04	0.04
						cis-1,2-Dichloroethene	< 0.02	0.02
						cis-1,3-Dichloropropene	< 0.03	0.03
						cis-2-Butene	< 0.03	0.03
						cis-2-Pentene	< 0.02	0.02
						Cyclohexane	< 0.04	0.04
						Cyclopentane	< 0.02	0.02
						Dibromochloromethane	< 0.02	0.02
						Ethanol	< 0.5	0.5
						Ethyl acetate	< 0.3	0.3
						Ethylbenzene	< 0.03	0.03
						Freon-11	< 0.02	0.02
						Freon-113	< 0.02	0.02
						Freon-114	< 0.03	0.03



PEACE RIVER AREA MONITORING PROGRAM

842-B Site -September 2023

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID		2023-09-20 @14:40 Non-methane Hydrocarbon - BLANK 28941									
Method		NA-025		Method		NA-024		Method		AC-058	
Maximum Reading (ppmv)		-		-		-		Maximum Reading (ppmv)		4.1 Acetone	
Parameter		Result (ppmv) RDL (ppmv)		Parameter		Result (ppbv) RDL (ppbv)		Parameter		Result (ppbv) RDL (ppbv)	
								Freon-12		< 0.03 0.03	
								Hexachloro-1,3-butadiene		< 0.3 0.30	
								Isobutane		< 0.03 0.03	
								Isopentane		< 0.04 0.04	
								Isoprene		< 0.02 0.02	
								Isopropyl alcohol		< 0.3 0.3	
								Isopropylbenzene		< 0.04 0.04	
								m,p-Xylene		< 0.04 0.04	
								m-Diethylbenzene		< 0.02 0.02	
								m-Ethyltoluene		< 0.03 0.03	
								Methyl butyl ketone		< 0.4 0.40	
								Methyl ethyl ketone		< 0.3 0.3	
								Methyl isobutyl ketone		< 0.3 0.3	
								Methyl methacrylate		< 0.08 0.08	
								Methyl tert butyl ether		< 0.03 0.03	
								Methylcyclohexane		< 0.02 0.02	
								Methylcyclopentane		< 0.05 0.05	
								Methylene chloride		< 0.3 0.3	
								n-Butane		< 0.02 0.02	
								n-Decane		< 0.06 0.06	
								n-Dodecane		< 0.3 0.3	
								n-Heptane		< 0.04 0.04	
								n-Hexane		< 0.03 0.03	
								n-Nonane		< 0.04 0.04	
								n-Octane		< 0.02 0.02	
								n-Pentane		< 0.04 0.0	
								n-Propylbenzene		< 0.06 0.06	
								n-Undecane		< 0.5 0.5	
								Naphthalene		< 0.3 0.3	
								o-Ethyltoluene		< 0.02 0.02	
								o-Xylene		< 0.03 0.03	
								p-Diethylbenzene		< 0.02 0.02	
								p-Ethyltoluene		< 0.04 0.04	
								Styrene		< 0.04 0.04	
								Tetrachloroethylene		< 0.02 0.02	
								Tetrahydrofuran		< 0.3 0.3	
								Toluene		< 0.03 0.03	
								trans-1,2-Dichloroethylene		< 0.06 0.06	
								trans-1,3-Dichloropropylene		< 0.02 0.02	
								trans-2-Butene		< 0.03 0.03	
								trans-2-Pentene		< 0.02 0.02	
								Trichloroethylene		< 0.02 0.02	
								Vinyl acetate		< 0.3 0.3	
								Vinyl chloride		< 0.02 0.02	



**PEACE RIVER AREA MONITORING PROGRAM**  
**Reno-B Site -September 2023**  
**Volatile Organic Compounds (VOCs) Results**

Sample Date/Time Canister Sample Canister ID	2023-09-29 @19:40 Non-methane Hydrocarbon 29038							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	1.9	Methane	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	5.6	Acetone
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	Result (ppbv)	RDL (ppbv)
1-Butene	< 0.16	0.16	2,5-Dimethylthiophene	< 0.5	0.5	1,1,1-Trichloroethane	< 0.03	0.03
Acetylene	< 0.13	0.13	2-Ethylthiophene	< 0.3	0.3	1,1,2,2-Tetrachloroethane	< 0.03	0.03
cis-2-Butene	< 0.07	0.07	2-Methylthiophene	< 0.3	0.3	1,1,2-Trichloroethane	< 0.03	0.03
Ethane	< 0.2	0.2	3-Methylthiophene	< 0.5	0.5	1,1-Dichloroethane	< 0.03	0.03
Ethylacetylene	< 0.10	0.10	Butyl mercaptan	< 0.5	0.5	1,1-Dichloroethylene	< 0.03	0.03
Ethylene	< 0.11	0.11	Carbon disulphide	< 0.3	0.3	1,2,3-Trimethylbenzene	< 0.08	0.08
Isobutane	< 0.2	0.2	Carbonyl sulphide	< 0.5	0.5	1,2,4-Trichlorobenzene	< 0.5	0.5
Isobutylene	< 0.2	0.2	Dimethyl disulphide	< 0.3	0.3	1,2,4-Trimethylbenzene	< 0.05	0.05
Methane	<b>1.9</b>	0.2	Dimethyl sulphide	< 0.3	0.3	1,2-Dibromoethane	< 0.03	0.03
n-Butane	< 0.3	0.3	Ethyl mercaptan	< 0.5	0.5	1,2-Dichlorobenzene	< 0.05	0.05
n-Propane	< 0.11	0.11	Ethyl sulphide	< 0.5	0.5	1,2-Dichloroethane	< 0.05	0.05
Propylene	< 0.2	0.2	Hydrogen sulphide	< 0.2	0.2	1,2-Dichloropropane	< 0.05	0.05
Propyne	< 0.2	0.2	Isobutyl mercaptan	< 0.5	0.5	1,3,5-Trimethylbenzene	< 0.05	0.05
trans-2-Butene	< 0.15	0.15	Isopropyl mercaptan	< 0.2	0.2	1,3-Butadiene	< 0.05	0.05
			Methyl mercaptan	< 0.3	0.3	1,3-Dichlorobenzene	< 0.7	0.7
			Pentyl mercaptan	< 0.7	0.7	1,4-Dichlorobenzene	< 0.7	0.7
			Propyl mercaptan	< 0.7	0.7	1,4-Dioxane	< 0.8	0.8
			tert-Butyl mercaptan	< 0.5	0.5	1-Butene/Isobutylene	0.17	0.10
			Thiophene	< 0.3	0.3	1-Hexene/2-Methyl-1-pentene	< 0.11	0.11
						1-Pentene	< 0.05	0.05
						2,2,4-Trimethylpentane	0.04	0.03
						2,2-Dimethylbutane	< 0.03	0.03
						2,3,4-Trimethylpentane	< 0.03	0.03
						2,3-Dimethylbutane	< 0.15	0.15
						2,3-Dimethylpentane	0.12	0.03
						2,4-Dimethylpentane	< 0.05	0.05
						2-Methylheptane	< 0.03	0.03
						2-Methylhexane	0.06	0.05
						2-Methylpentane	0.08	0.03
						3-Methylheptane	< 0.05	0.05
						3-Methylhexane	< 0.03	0.03
						3-Methylpentane	0.06	0.03
						Acetone	<b>5.6</b>	0.7
						Acrolein	< 0.5	0.5
						Benzene	1.6	0.05
						Benzyl chloride	< 0.5	0.5
						Bromodichloromethane	< 0.05	0.05
						Bromoform	< 0.03	0.03
						Bromomethane	< 0.03	0.03
						Carbon disulfide	< 0.03	0.03
						Carbon tetrachloride	0.05	0.03
						Chlorobenzene	< 0.03	0.03
						Chloroethane	< 0.03	0.03
						Chloroform	< 0.03	0.03
						Chloromethane	0.48	0.07
						cis-1,2-Dichloroethene	< 0.03	0.03
						cis-1,3-Dichloropropene	< 0.05	0.05
						cis-2-Butene	< 0.05	0.05
						cis-2-Pentene	< 0.03	0.03
						Cyclohexane	< 0.07	0.07
						Cyclopentane	0.04	0.03
						Dibromochloromethane	< 0.03	0.03
						Ethanol	2.9	0.8
						Ethyl acetate	< 0.5	0.5
						Ethylbenzene	< 0.05	0.05
						Freon-11	0.19	0.03
						Freon-113	0.05	0.03
						Freon-114	< 0.05	0.05



**PEACE RIVER AREA MONITORING PROGRAM**  
*Reno-B Site -September 2023*  
 Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID		2023-09-29 @19:40 Non-methane Hydrocarbon 29038									
Method		NA-025		Method		NA-024		Method		AC-058	
Maximum Reading (ppmv)		1.9	Methane	Maximum Reading (ppmv)		-	-	Maximum Reading (ppmv)		5.6	Acetone
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	Result (ppbv)	RDL (ppbv)			
						Freon-12	0.47	0.05			
						Hexachloro-1,3-butadiene	< 0.5	0.49			
						Isobutane	0.16	0.05			
						Isopentane	0.44	0.07			
						Isoprene	0.04	0.03			
						Isopropyl alcohol	< 0.5	0.5			
						Isopropylbenzene	< 0.07	0.07			
						m,p-Xylene	0.11	0.07			
						m-Diethylbenzene	< 0.03	0.03			
						m-Ethyltoluene	< 0.05	0.05			
						Methyl butyl ketone	< 0.7	0.65			
						Methyl ethyl ketone	< 0.5	0.5			
						Methyl isobutyl ketone	< 0.5	0.5			
						Methyl methacrylate	< 0.13	0.13			
						Methyl tert butyl ether	< 0.05	0.05			
						Methylcyclohexane	< 0.03	0.03			
						Methylcyclopentane	< 0.08	0.08			
						Methylene chloride	< 0.5	0.5			
						n-Butane	0.74	0.03			
						n-Decane	< 0.10	0.10			
						n-Dodecane	< 0.5	0.5			
						n-Heptane	0.09	0.07			
						n-Hexane	0.1	0.05			
						n-Nonane	< 0.07	0.07			
						n-Octane	< 0.03	0.03			
						n-Pentane	0.23	0.1			
						n-Propylbenzene	< 0.10	0.10			
						n-Undecane	< 0.8	0.8			
						Naphthalene	< 0.5	0.5			
						o-Ethyltoluene	< 0.03	0.03			
						o-Xylene	< 0.05	0.05			
						p-Diethylbenzene	0.06	0.03			
						p-Ethyltoluene	< 0.07	0.07			
						Styrene	< 0.07	0.07			
						Tetrachloroethylene	< 0.03	0.03			
						Tetrahydrofuran	< 0.5	0.5			
						Toluene	0.65	0.05			
						trans-1,2-Dichloroethylene	< 0.10	0.10			
						trans-1,3-Dichloropropylene	< 0.03	0.03			
						trans-2-Butene	< 0.05	0.05			
						trans-2-Pentene	< 0.03	0.03			
						Trichloroethylene	< 0.03	0.03			
						Vinyl acetate	< 0.5	0.5			
						Vinyl chloride	< 0.03	0.03			



PEACE RIVER AREA MONITORING PROGRAM

Reno-B Site -September 2023

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID			2023-09-29 @19:40 Non-methane Hydrocarbon - BLANK 28950					
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	2.8	Acetone
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	< 0.05	0.05
Isobutane	< 0.1	0.1	Carbonyl sulphide	< 0.3	0.3	1,2,4-Trichlorobenzene	< 0.3	0.3
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.2	0.2	1,2,4-Trimethylbenzene	< 0.03	0.03
Methane	< 0.1	0.1	Dimethyl sulphide	< 0.2	0.2	1,2-Dibromoethane	< 0.02	0.02
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.3	0.3	1,2-Dichlorobenzene	< 0.03	0.03
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.3	0.3	1,2-Dichloroethane	< 0.03	0.03
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1	0.1	1,2-Dichloropropane	< 0.03	0.03
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.3	0.3	1,3,5-Trimethylbenzene	< 0.03	0.03
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene	< 0.03	0.03
			Methyl mercaptan	< 0.2	0.2	1,3-Dichlorobenzene	< 0.4	0.4
			Pentyl mercaptan	< 0.4	0.4	1,4-Dichlorobenzene	< 0.4	0.4
			Propyl mercaptan	< 0.4	0.4	1,4-Dioxane	< 0.5	0.5
			tert-Butyl mercaptan	< 0.3	0.3	1-Butene/Isobutylene	< 0.06	0.06
			Thiophene	< 0.2	0.2	1-Hexene/2-Methyl-1-pentene	< 0.07	0.07
						1-Pentene	< 0.03	0.03
						2,2,4-Trimethylpentane	< 0.02	0.02
						2,2-Dimethylbutane	< 0.02	0.02
						2,3,4-Trimethylpentane	< 0.02	0.02
						2,3-Dimethylbutane	< 0.09	0.09
						2,3-Dimethylpentane	< 0.02	0.02
						2,4-Dimethylpentane	< 0.03	0.03
						2-Methylheptane	< 0.02	0.02
						2-Methylhexane	< 0.03	0.03
						2-Methylpentane	< 0.02	0.02
						3-Methylheptane	< 0.03	0.03
						3-Methylhexane	< 0.02	0.02
						3-Methylpentane	< 0.02	0.02
						Acetone	2.8	0.4
						Acrolein	< 0.3	0.3
						Benzene	< 0.03	0.03
						Benzyl chloride	< 0.3	0.3
						Bromodichloromethane	< 0.03	0.03
						Bromoform	< 0.02	0.02
						Bromomethane	< 0.02	0.02
						Carbon disulfide	< 0.02	0.02
						Carbon tetrachloride	< 0.02	0.02
						Chlorobenzene	< 0.02	0.02
						Chloroethane	< 0.02	0.02
						Chloroform	< 0.02	0.02
						Chloromethane	< 0.04	0.04
						cis-1,2-Dichloroethene	< 0.02	0.02
						cis-1,3-Dichloropropene	< 0.03	0.03
						cis-2-Butene	< 0.03	0.03
						cis-2-Pentene	< 0.02	0.02
						Cyclohexane	< 0.04	0.04
						Cyclopentane	< 0.02	0.02
						Dibromochloromethane	< 0.02	0.02
						Ethanol	< 0.5	0.5
						Ethyl acetate	< 0.3	0.3
						Ethylbenzene	< 0.03	0.03
						Freon-11	< 0.02	0.02
						Freon-113	< 0.02	0.02
						Freon-114	< 0.03	0.03



PEACE RIVER AREA MONITORING PROGRAM

Reno-B Site -September 2023

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID		2023-09-29 @19:40 Non-methane Hydrocarbon - BLANK 28950						
Method	NA-025	Method	NA-024	Method	AC-058			
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	2.8 Acetone	
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	Result (ppbv)	RDL (ppbv)
						Freon-12	< 0.03	0.03
						Hexachloro-1,3-butadiene	< 0.3	0.30
						Isobutane	< 0.03	0.03
						Isopentane	< 0.04	0.04
						Isoprene	< 0.02	0.02
						Isopropyl alcohol	0.4	0.3
						Isopropylbenzene	< 0.04	0.04
						m,p-Xylene	< 0.04	0.04
						m-Diethylbenzene	< 0.02	0.02
						m-Ethyltoluene	< 0.03	0.03
						Methyl butyl ketone	< 0.4	0.40
						Methyl ethyl ketone	< 0.3	0.3
						Methyl isobutyl ketone	< 0.3	0.3
						Methyl methacrylate	< 0.08	0.08
						Methyl tert butyl ether	< 0.03	0.03
						Methylcyclohexane	< 0.02	0.02
						Methylcyclopentane	< 0.05	0.05
						Methylene chloride	< 0.3	0.3
						n-Butane	< 0.02	0.02
						n-Decane	< 0.06	0.06
						n-Dodecane	< 0.3	0.3
						n-Heptane	< 0.04	0.04
						n-Hexane	< 0.03	0.03
						n-Nonane	< 0.04	0.04
						n-Octane	< 0.02	0.02
						n-Pentane	< 0.04	0.0
						n-Propylbenzene	< 0.06	0.06
						n-Undecane	< 0.5	0.5
						Naphthalene	< 0.3	0.3
						o-Ethyltoluene	< 0.02	0.02
						o-Xylene	< 0.03	0.03
						p-Diethylbenzene	0.03	0.02
						p-Ethyltoluene	< 0.04	0.04
						Styrene	< 0.04	0.04
						Tetrachloroethylene	< 0.02	0.02
						Tetrahydrofuran	< 0.3	0.3
						Toluene	< 0.03	0.03
						trans-1,2-Dichloroethylene	< 0.06	0.06
						trans-1,3-Dichloropropylene	< 0.02	0.02
						trans-2-Butene	< 0.03	0.03
						trans-2-Pentene	< 0.02	0.02
						Trichloroethylene	< 0.02	0.02
						Vinyl acetate	< 0.3	0.3
						Vinyl chloride	< 0.02	0.02

## Passives



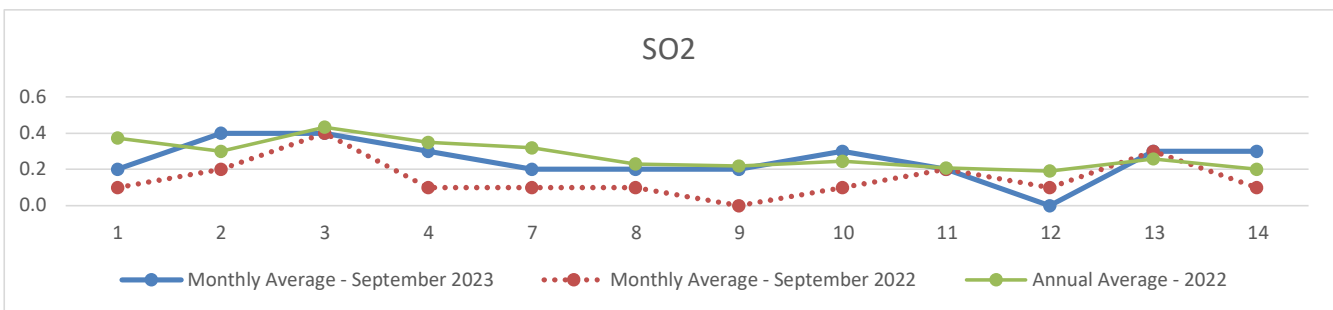
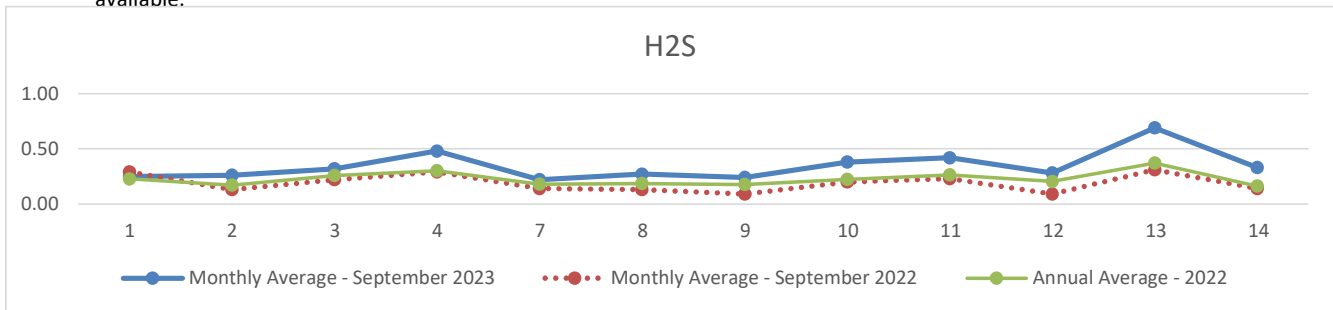
PEACE RIVER AREA MONITORING PROGRAM

PRC Site - September 2023

Passive Results

	H <sub>2</sub> S		SO <sub>2</sub>	
Minimum (ppb)	0.22	#7	0.2	#1
Maximum (ppb)	0.69	#13	0.4	#2
Average (ppb)	0.35	-	0.27	-
No.	Calculated Value		Calculated Value	
1	0.25		0.2	
2	0.26		0.4	
3	0.32		0.4	
4	0.48		0.3	
7	0.22		0.2	
8	0.27		0.2	
9	0.24		0.2	
10	0.38		0.3	
11	0.42		0.2	
12	0.28		Missing	
13	0.69		0.3	
14	0.33		0.3	
Reportable Detection Limit (RDL)	<b>0.02</b>		<b>0.1</b>	

Note: SO<sub>2</sub> sample media was found damaged during sample collection (media is missing). No analytical result is available.





End of Report