



PRC Ambient Air Monitoring Station Site Documentation / Network Documentation

Ambient Site Doc-PRAMP-20250331-01698-V02

March 2025

Ambient Air Monitoring Site Documentation

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1.0 General Information

1.1 Station

Station identification/number	PRC (Alberta's Data Warehouse Site ID: 01698)
Station Name (building name, park name, etc.)	PRC
Date station established	March 1, 2022
Date information last updated	March 28, 2024

1.2 Location

Station address (street address/legal land description)	Northern Sunrise County, AB T8S 1V1	
Nearest cross-street	CNRL Peace River Plant Complex site, east of Seal Lake Rd.	
Air zone / Airshed zone	PRAMP Airshed	
Latitude	56.38257, -116.769283	
Longitude	-117.137080	
UTM Coordinates	East: 514246.83	North: 6248683.81
Community (municipality, community or county)	Northern Sunrise County	
Population of city or metropolitan area	2646	
Census year	2024	

Source: <https://regionaldashboard.alberta.ca/region/grimshaw/population/#/?from=2020&to=2024>

DIRECTIONS:

From Peace River, head west on AB-2W, turn right onto 75 St/ AB-743 N (sign for Weberville Rd / Peace River/ Pulp Mill), travel for 14.6km. Turn right onto AB-986E. Travel 30.2 km. Turn right and travel for 5.2 km. The trailer will be 1.4km on the right.

1.3 Owner/Operator/Approval Holder

Name of operating agency	Bureau Veritas Canada
Address	#1 2080 39th Ave NE
	Calgary, AB T2E 6P7

Contact name	Christopher Wesson
Phone number	780-446-2724
Email address	Christopher.WESSON@bvlabs.com

Name of owner/approval holder	Peace River Air Monitoring Program
Address	Suite 91, 305 – 4625 Varsity Drive NW Calgary, AB, T3A 0Z9
Contact name	Mike Bisaga / Lily Lin
Phone number	780-266-7068 / 587-225-2248
Email address	pramptech@prampairshed.ca
Approval number	n/a

2.0 Site Description

Land use by sector (use 90° as a sector)	1. North: Pond / Forested area	
	2. East: Forested area	
	3. South: Forested area	
	4. West: Forested area	
Site elevation (above sea level (m))	610 m	
Angle of elevation to nearby buildings	1. Greatest angle: n/a	
	2. Building direction: n/a	
Average building height in the area (m)	No buildings present in immediate area	
Air flow restrictions (yes/no)	North: No	South: No
	East: No	West: No
Distance to nearest trees (m)	60 m	
Description of Obstruction	Trees, ~ 11m height	
Angle of Elevation (wind system)	<0°	
Angle of Elevation (manifold)	7°	
Manifold	1. Type: Stainless Steel / Glass	
	2. Distance from supporting structure: 1 m	
	3. Total Height: 4 m	
Meteorological Information	1. Type: Steel Tower	
	2. Distance from supporting structure: 17 m	
	3. Distance from station: 20 m	
	4. Contact: Adjacent to SW end of the air monitoring station	

3.0 Site Influences

3.1 Localized sources (within 20 metres of station, monitor, or sampler)

Type	Distance (m)	Description
Open field	n/a	n/a

3.2 Roadway influences

Name	Type	*Traffic Volume	Distance (m)	Description
Unknown	Facility use road	Unknown - Minimum	575 m	Unpaved Rural Road
Seal Lake Road	Facility use road	Unknown - Minimum	1.5 km	Paved Road

*Average annual weekday traffic

3.3 Major point sources

Source Name	Source Type	Production Capacity	Distance from Site (km)	Compass direction (degrees)
TransAlta Three Creeks Facility	H2S, TRS, THC	unknown	500 m	Southeast
CNUL Peace River Complex Facility	H2S, TRS, THC	unknown	500 m	West

4.0 Instruments

Station Name: PRC

Instrument Type	Owner	Make	Serial No.	Sampling Height (m)	Date Installed (Date PRAMP took over the station)
Sulphur dioxide	CNRL	Thermo 43i	1034746225	4	March 1, 2022
Methane / Non-methane hydrocarbons	CNRL	Thermo 55i	1034745845	4	March 1, 2022
Total reduced sulphur	CNRL	Thermo 450i	1034746224	4	March 1, 2022
Hydrogen Sulphide	CNRL	Thermo 450i	1308857354	4	March 1, 2022
TRS convertor	CNRL	CD Nova CDN-101	516	n/a	March 1, 2022
Wind speed/direction	CNRL	RM Young 05305VK	129612	10	March 1, 2022
Temperature/RH	PRAMP	Rotronic HC2-S3	20558318	3	March 1, 2022
Barometric Pressure	PRAMP	Met One 92	B19577	3	March 1, 2022
Data logger	PRAMP	Envista Ultimate	n/a	n/a	March 1, 2022
Zero Air Generator	PRAMP	Teledyne 701	n/a	n/a	March 1, 2022
Hydrogen Generator	PRAMP	AMA HG300	211067076	n/a	March 1, 2022
Station Temperature	CNRL	Canadian Natural	n/a	n/a	March 1, 2022

5.0 Continuous Station

5.1 Area Map for Continuous Station



Source: <http://maps.google.com>

Retrieved: March 19, 2023

5.2 Sketch for Continuous Station



Distances from the Reno-B Station:

A: 75 m away from the north side of trees

B: 70 m away from the east side of trees

C: 60 m away from the south side of trees

D: 60 m away from the west side of trees

E: 60 m away from the unpaved road to the station

Notes:

* The station is surrounded by trees.

5.3 Photographs for Continuous Stations

East:



North:



South:



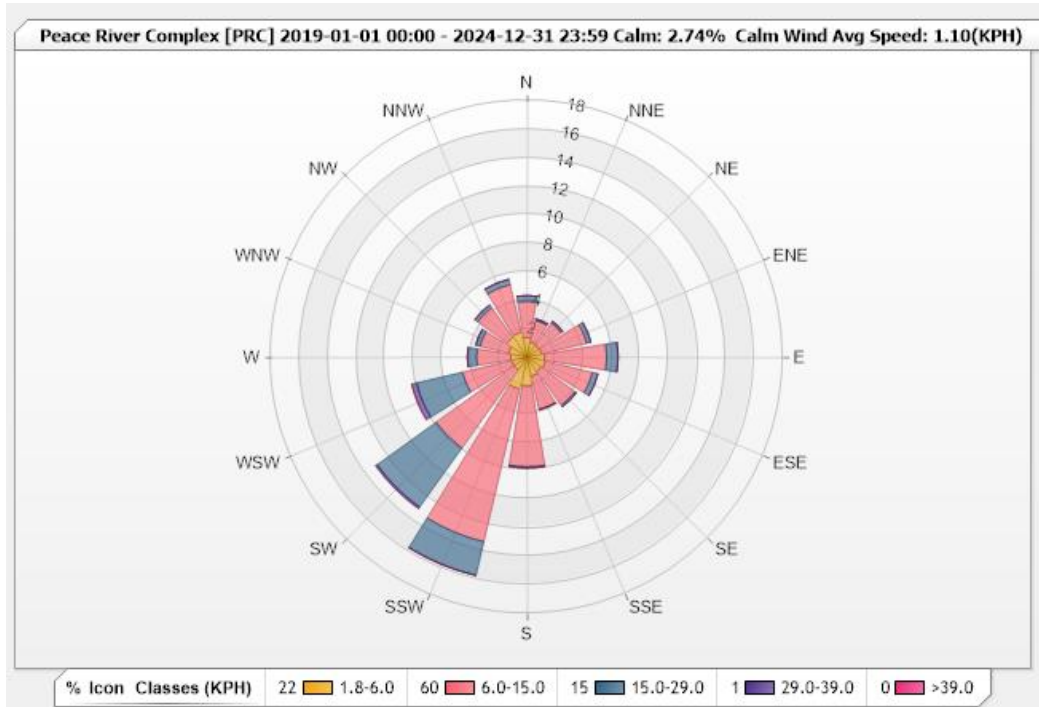
West:



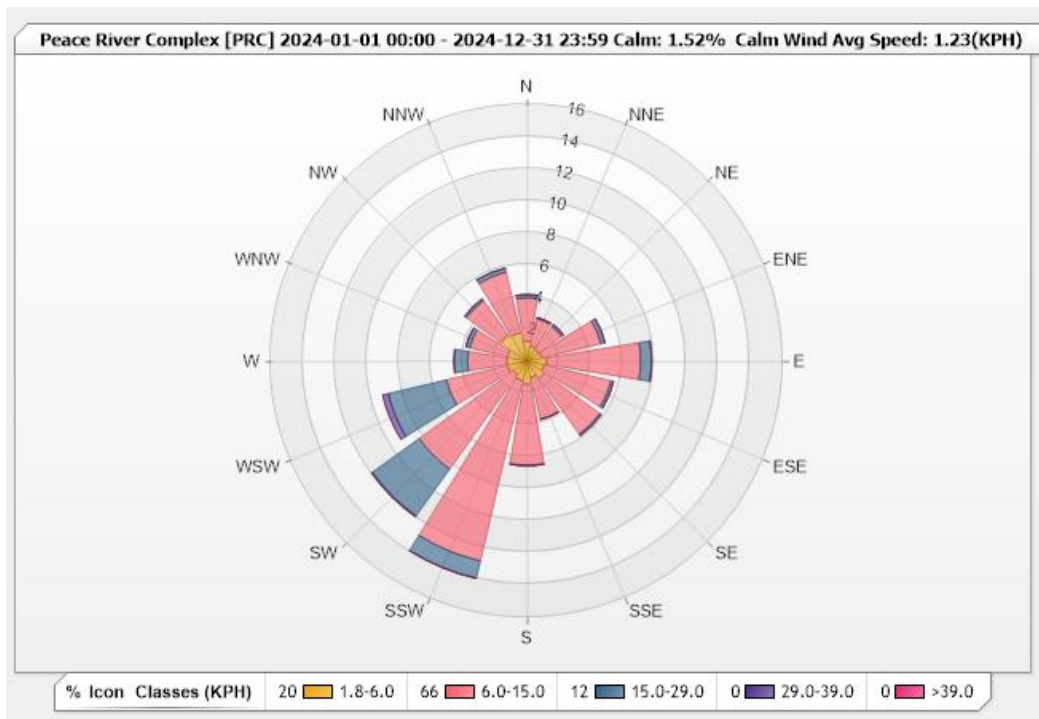
Colour picture showing the details of the sampling inlet(s) or manifold in relation to the station.



5.4 Wind Roses

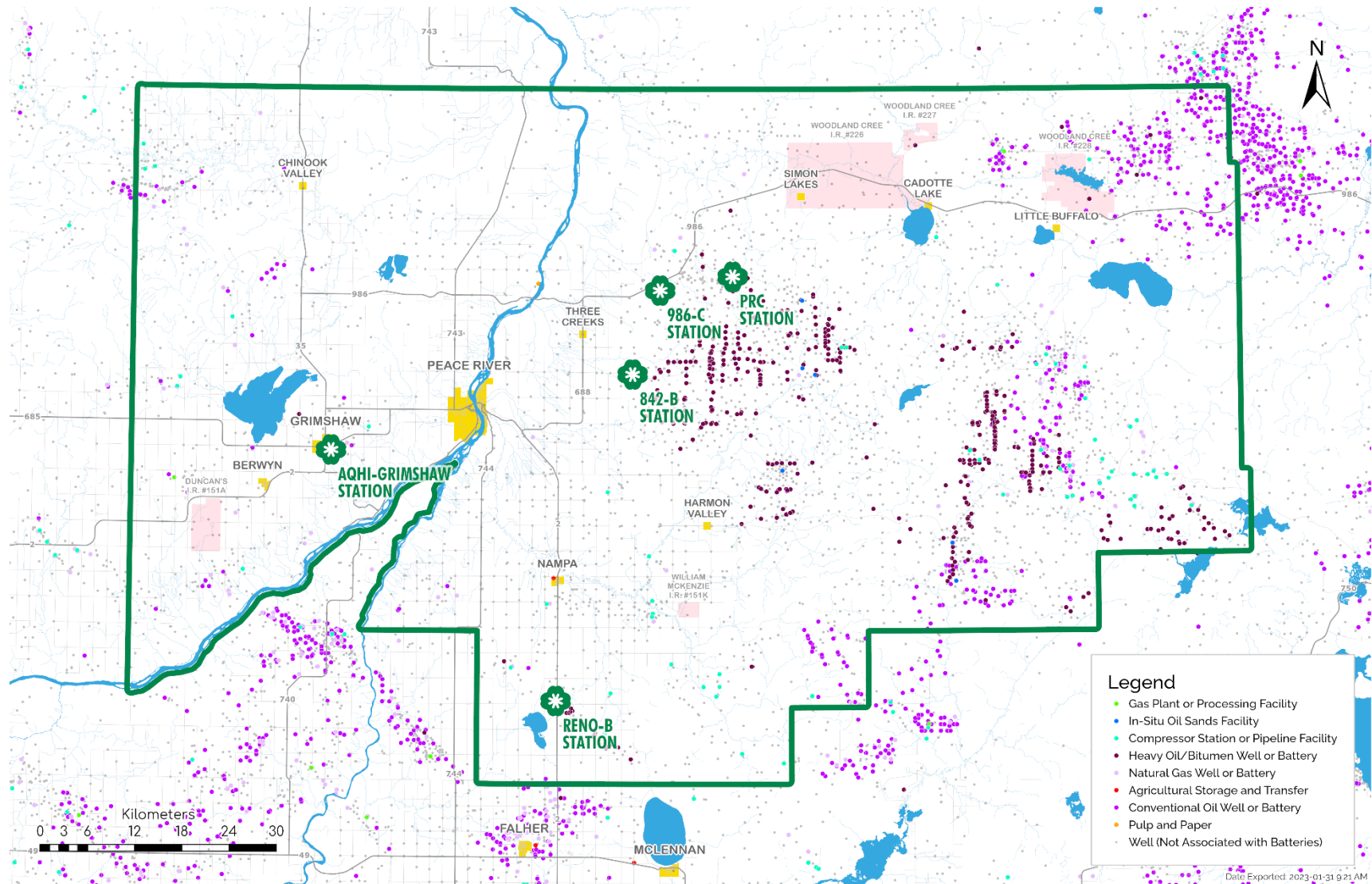


Data Period: January 1, 2019 – December 31, 2024 (PRAMP obtained the PRC site wind data from CNRL back to January 1, 2019)



Data Period: January 1, 2024 – December 31, 2024

6.0 Network of Stations



7.0 Revisions

Revision No.	Date	Reason For Revision	Prepared By	Approved By
0	March 2023	Original	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
1	March 2024	Updated instrument list and wind roses	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
2	March 2025	Updated population #, instrument list and wind roses	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager