



pramp
PEACE RIVER AREA MONITORING PROGRAM



986-C Ambient Air Monitoring Station Site Documentation / Network Documentation

Ambient Site Doc-PRAMP-20240328-01562-V02

March 2024

Ambient Air Monitoring Site Documentation Template

1.0	General Information	3
1.1	Station	3
1.2	Location.....	3
1.3	Owner/Operator/Approval Holder	4
2.0	Site Description.....	5
3.0	Site Influences	6
3.1	Localized sources (within 20 metres of station, monitor, or sampler).....	6
3.2	Roadway influences	6
3.3	Major point sources.....	6
4.0	Instruments	7
5.0	Continuous Stations	8
5.1	Area Map for Continuous Station	8
5.2	Sketches for Continuous Stations	9
5.3	Photographs for Continuous Stations.....	10
5.4	Wind Rose	13
6.0	Network of Stations	14
7.0	Revisions	14

1.0 General Information

1.1 Station

Station identification/number	986-C
Station Name (building name, park name, etc.)	Three Creeks 986-C
Date station established	August 1, 2019
Date information last updated	March 28, 2024

1.2 Location

Station address (street address/legal land description)	85240 Range Rd 193, Northern Sunrise County, AB	
	5-15-85-19-W5	
Nearest cross-street	Hwy 986 and Range Rd 193	
Air zone / Airshed zone	PRAMP Airshed	
Latitude	56.369988	
Longitude	-116.925636	
UTM Coordinates	East: 504593.51	North: 6247261.97
Community (municipality, community or county)	Peace River	
Population of city or metropolitan area	7215*	
Census year	2020	

*Source: <https://regionaldashboard.alberta.ca/region/peace-river/population/#/?from=2016&to=2020>

DIRECTIONS:

From Peace River, travel approx. 8 km on Hwy 2 (south) and turn onto Hwy 688 E.

Follow this for 23 km and then turn onto Hwy 986 (east).

From the junction of Hwy 688 and Hwy 986, travel about 10.1 km, turn right on Range Rd 193 and drive about 150m. The trailer is set back from the road, on the left-hand side.

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	prampotech@prampairshed.ca
Approval number	n/a

2.0 Site Description

Land use by sector (use 90° as a sector)	1. North: Agricultural	
	2. East: Agricultural	
	3. South: Agricultural	
	4. West: Homestead	
Site elevation (above sea level (m))	602 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)	50 m	
Manifold	1. Type: Stainless Steel / Glass	
	2. Distance from supporting structure: 1 m	
Meteorological Information	1. Type: Aluma Tower	
	2. Distance from supporting structure: 7 m	
	3. Distance from station: 10 m	
	4. Contact: on 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
Range Rd 193	Residential Street	Unknown - Minimal	40 m	Gravel Road
Hwy 986	Highway	Unknown – Minimal	1 km	Paved Rural Highway

*Average annual weekday traffic

3.3 Major point sources

Source Name	Source Type	Production Capacity	Distance from Site (km)	Compass direction (degrees)
CNRL Peace River Facility	H2S, THC	unknown	8.25 km	Northeast
Mercer Peace River Facility	H2S, PM2.5	unknown	10 km	West

4.0 Instruments

Station Name: 986-C

Instrument Type	Owner	Make	Serial No.	Sampling Height (m)	Date Installed
Sulphur dioxide	PRAMP	Thermo 43iQTL	1193585646	4	July 16, 2020
Methane / Non-methane hydrocarbons	PRAMP	Thermo 55i	1433563261	4	July 16, 2020
Total reduced sulphur	PRAMP	Thermo 43iQTL	12208316589	4	July 16, 2020
TRS convertor	PRAMP	CD Nova CDN-101	530	n/a	July 16, 2020
Wind speed/direction	PRAMP	RM Young 05305AQ	180340	10	July 16, 2020
Temperature/RH	PRAMP	Rotronic HC2-S3	20626912	3	July 16, 2020
Barometric Pressure	PRAMP	Met One 092	Y23358	3	July 16, 2020
Precipitation	PRAMP	RM Young 52202	TB 16325	4	July 16, 2020
Hydrogen generator	PRAMP	Thermo HG300	191267063	n/a	July 16, 2020
Zero air generator	PRAMP	API 701	468	n/a	July 16, 2020
Station temperature	PRAMP	COMET	18961918	n/a	July 16, 2020
Intermittent VOCs	Innotech / PRAMP	Suma Canister	n/a	4	July 16, 2020
Data logger	PRAMP	Envista Ultimate	n/a	n/a	July 16, 2020
AQM Trailer	PRAMP	ITB	VIN: 2C9CSC2G4K1044006 Plate #: 5WZ4-98	n/a	July 16, 2020

5.0 Continuous Stations

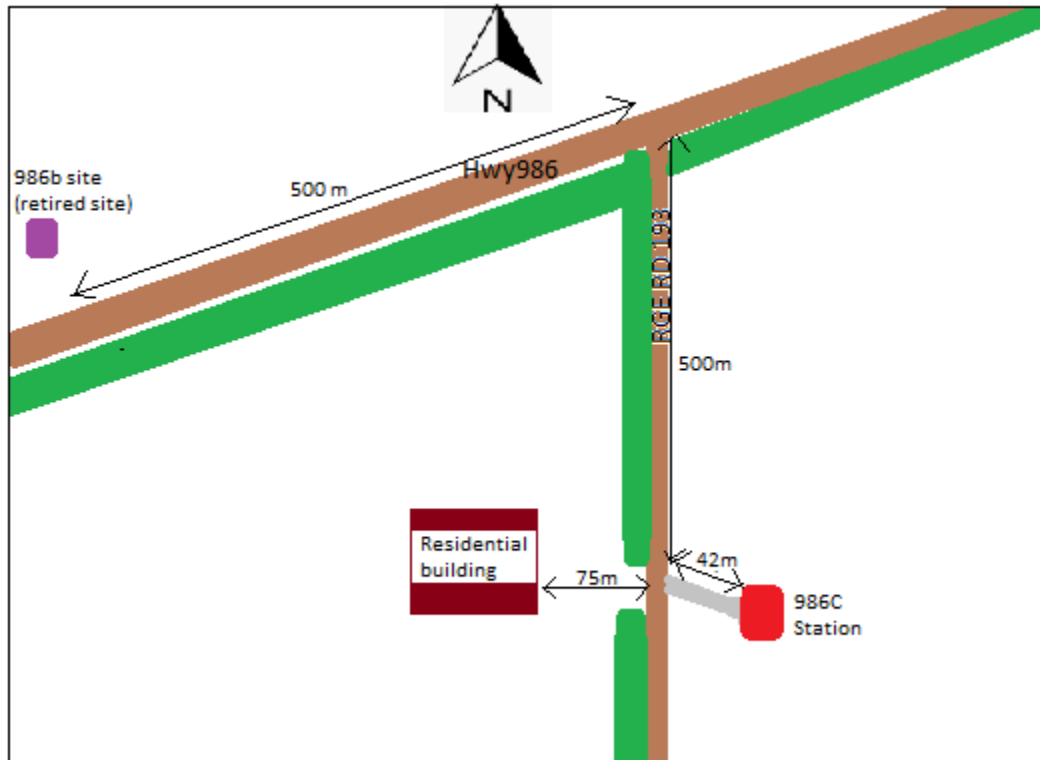
5.1 Area Map for Continuous Station



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

Retrieved: August 2019

5.2 Sketches for Continuous Stations



Notes:

Unless otherwise marked, land use is agricultural

5.3 Photographs for Continuous Stations

East:



North:



South:



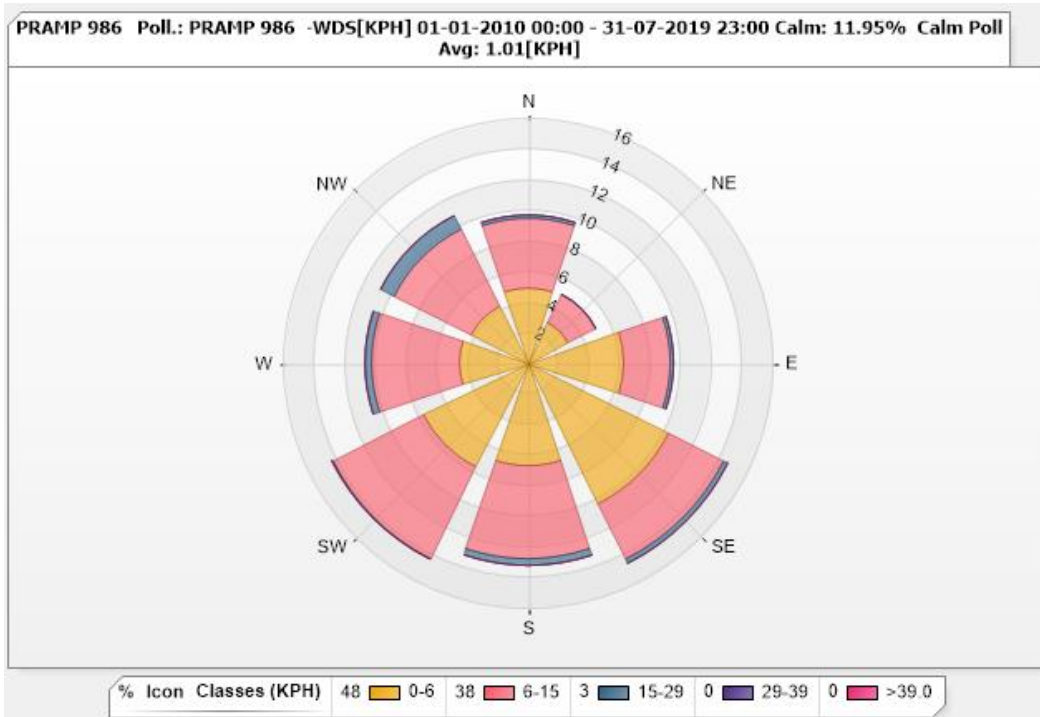
West:



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

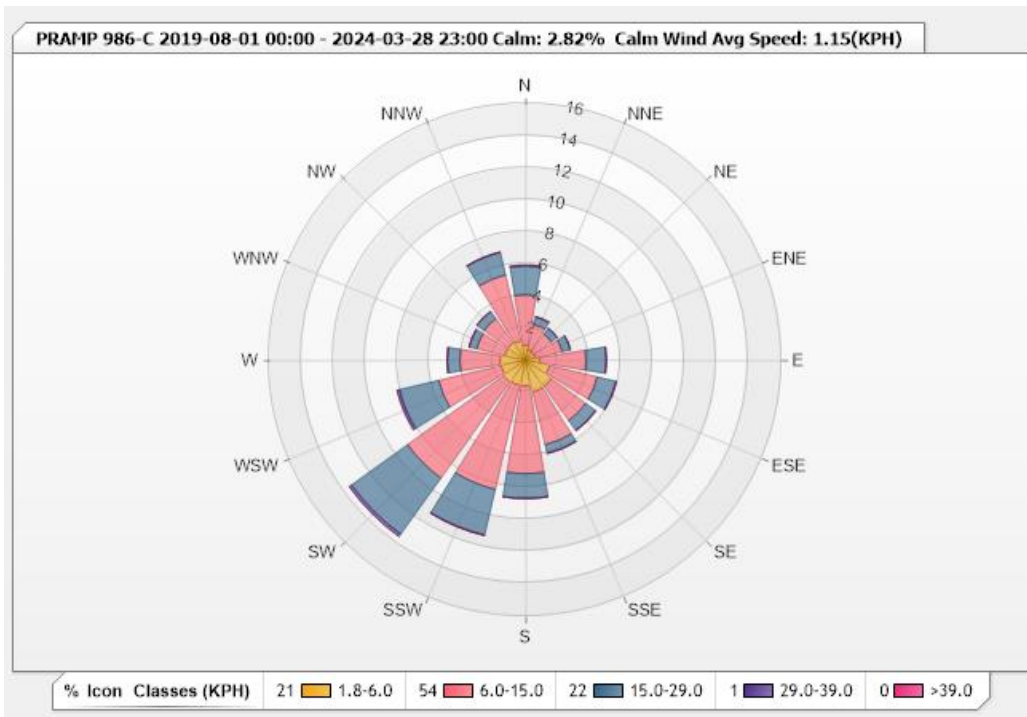


5.4 Wind Rose



Data Period: January 1, 2010 – July 31, 2019

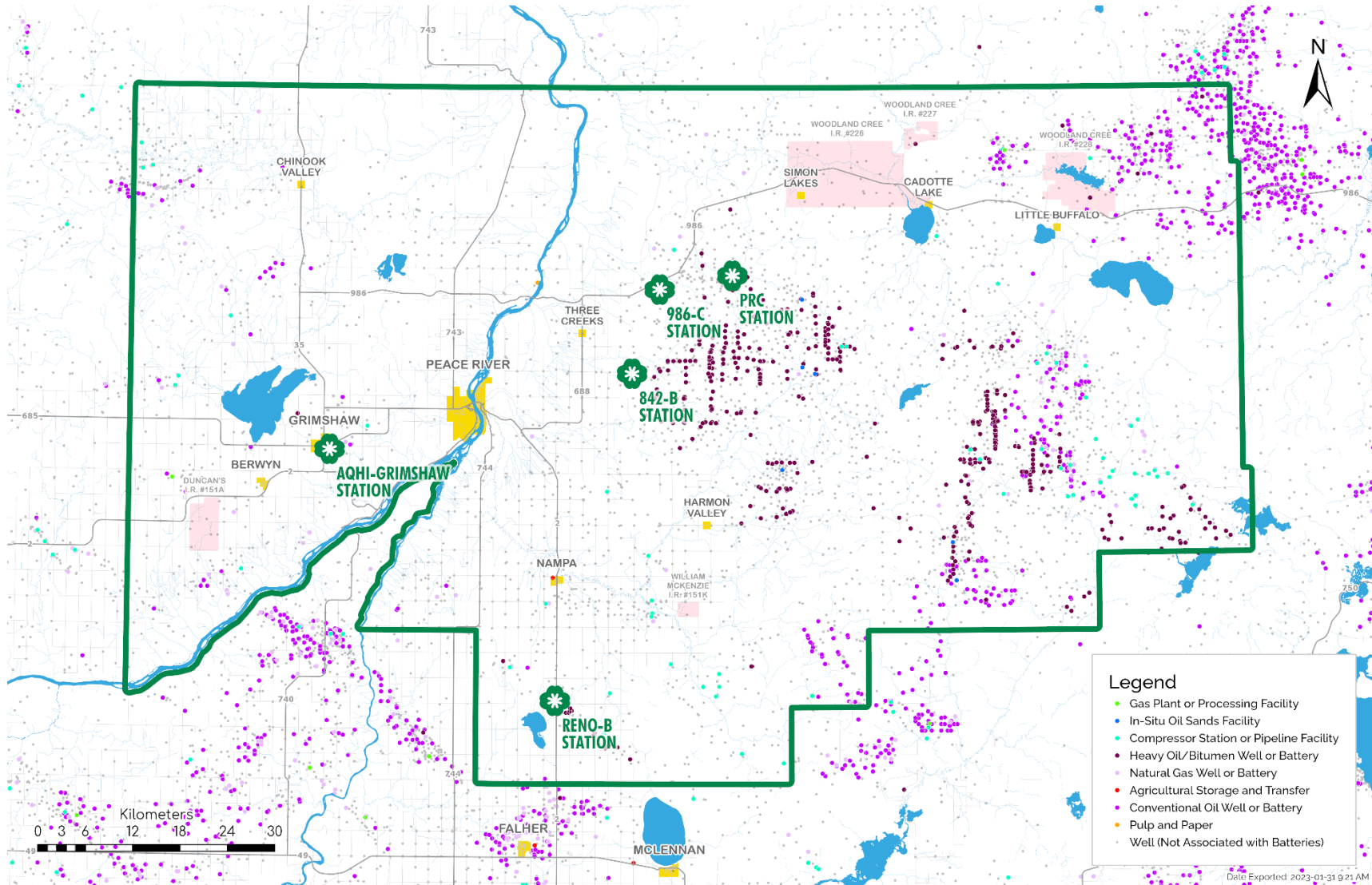
Data Collected at 986a and 986b



Data Period: August 1, 2019 – March 28, 2023

Data Collected at 986-C

6.0 Network of Stations



7.0 Revisions

Revision No.	Date	Reason For Revision	Prepared By	Approved By
0	December 2017	Original	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
1	March 2023	Update instrument list and wind roses	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager
2	March 2024	Update station name, instrument list and wind roses	Lily Lin, Technical Program Manager	Michael Bisage, Technical Program Manager