



pramp
PEACE RIVER AREA MONITORING PROGRAM



842-B Ambient Air Monitoring Station Site Documentation / Network Documentation

Ambient Site Doc-PRAMP-20240328-01561-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 | 842-B |
| Station Name (building name, park name, etc.) | Three Creeks 842-B |
| Date station established | November 7, 2012 |
| Date information last updated | March 28, 2024 |

1.2 Location

| | | |
|--|---|-----------------------|
| Station address (street address/legal land description) | 19556 Twn Rd 842, Northern Sunrise County, AB | |
| | 16-07-84-19, W5M | |
| Nearest cross-street | Twp 842 and unknown access to field | |
| Air zone / Airshed zone | PRAMP Airshed | |
| Latitude | 56.274385 | |
| Longitude | -116.981429 | |
| UTM Coordinates | East: 498849 | North: 6236618 |
| Community (municipality, community or county) | Peace River | |
| Population of city or metropolitan area | 7215 | |
| Census year | 2020 | |

DIRECTIONS:

From Peace River, travel approx. 8 km on Hwy 2 (south) and turn onto Hwy-688 E. Drive about 14 km and then turn onto Township Ed 842 (east). Continue on Twp Rd 842 approx. 6.3 km. Turn right to an unpaved field road.

The trailer is set back from the left hand side of the road, approximately 200 m after the asphalt surface restarts.

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: Agricultural | |
| Site elevation (above sea level (m)) | 614 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) | 160 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: South 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 |
|---------|---------|-------------------|--------------|---------------------|
| Twp 842 | Highway | Unknown – Minimal | 120 m | 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) |
|-------------------------|-------------|---------------------|-------------------------|-----------------------------|
| Tervita Facility | H2S, THC | unknown | 14.5 km | Northeast |
| CNUL Cliffdale Facility | H2S, THC | unknown | 27 km | East |

4.0 Instruments

Station Name: 842-B

| Instrument Type | Owner | Make | Serial No. | Sampling Height (m) | Date Installed |
|------------------------------------|------------------|------------------|--|---------------------|-------------------|
| Sulphur dioxide | PRAMP | Thermo 43iQTL | 1200736629 | 4 | December 17, 2020 |
| Methane / Non-methane hydrocarbons | PRAMP | Thermo 55i | 1501663728 | 4 | December 17, 2020 |
| Total reduced sulphur | PRAMP | Thermo 43iQTL | 1200736630 | 4 | December 17, 2020 |
| TRS convertor | PRAMP | CD Nova CDN-101 | 583 | n/a | December 17, 2020 |
| Wind speed/direction | PRAMP | RM Young 05305AQ | 174802 | 10 | December 17, 2020 |
| Temperature/RH | PRAMP | Rotronic HC2A-S3 | 20370767 | 3 | December 17, 2020 |
| Barometric Pressure | PRAMP | Met One 92 | Y23362 | 3 | December 17, 2020 |
| Precipitation | PRAMP | RM Young 52202 | TB 15878 | 4 | December 17, 2020 |
| Intermittent VOCs | Innotech / PRAMP | Suma Canister | n/a | 4 | December 17, 2020 |
| Data logger | PRAMP | Envista Ultimate | 510 | n/a | December 17, 2020 |
| Hydrogen Generator | PRAMP | AMA HG300 | 190567058 | n/a | December 17, 2020 |
| Zero Air Generator | PRAMP | API101 | 074 | n/a | December 17, 2020 |
| Station Temperature | PRAMP | COMET | 20790297 | n/a | December 17, 2020 |
| AQM Trailer | PRAMP | ITB | VIN: 2C9CSC2G7L1044003 Plate #: 5YX4-99 | n/a | December 17, 2020 |

5.0 Continuous Stations

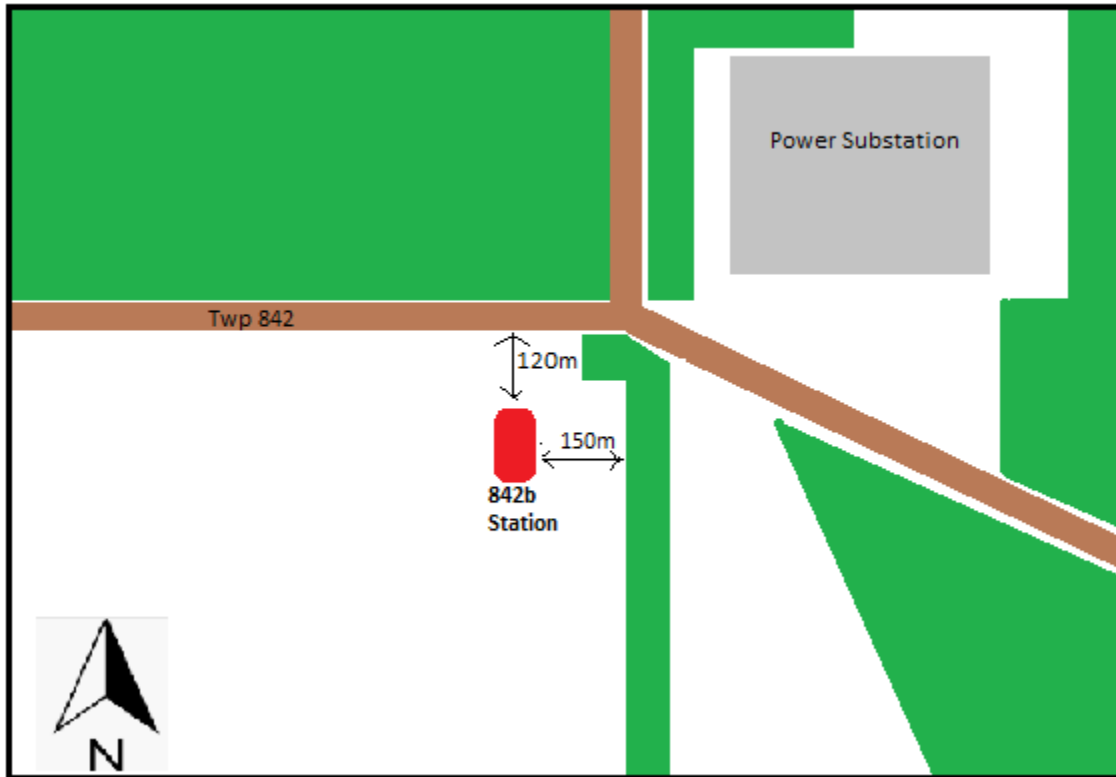
5.1 Area Map for Continuous Station



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

Retrieved: April 2020

5.2 Sketches for Continuous Stations



Notes:
Unless otherwise marked, land use is agricultural

5.3 Photographs for Continuous Stations

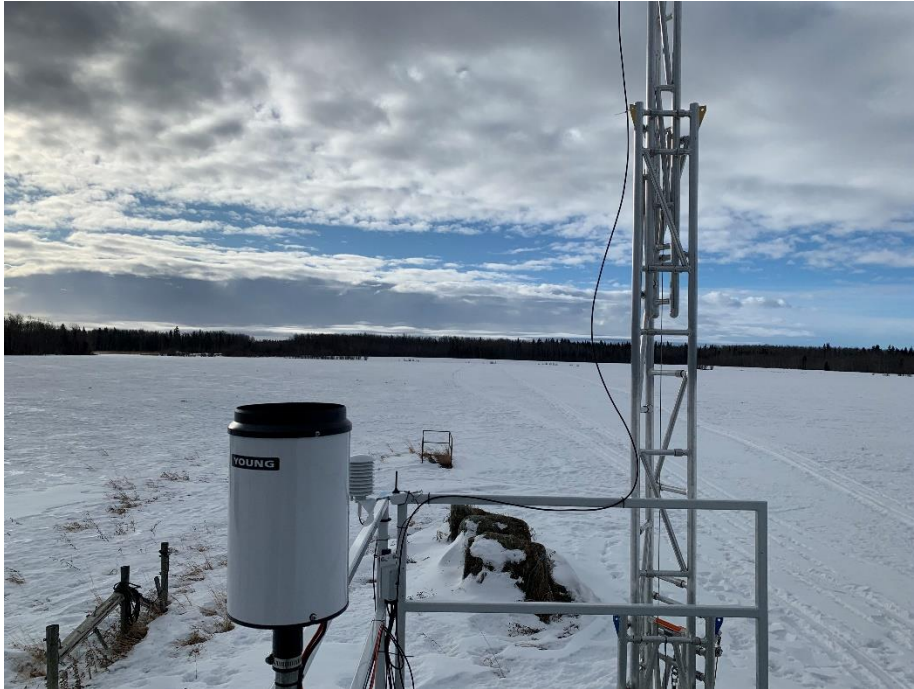
East:



North:



South:



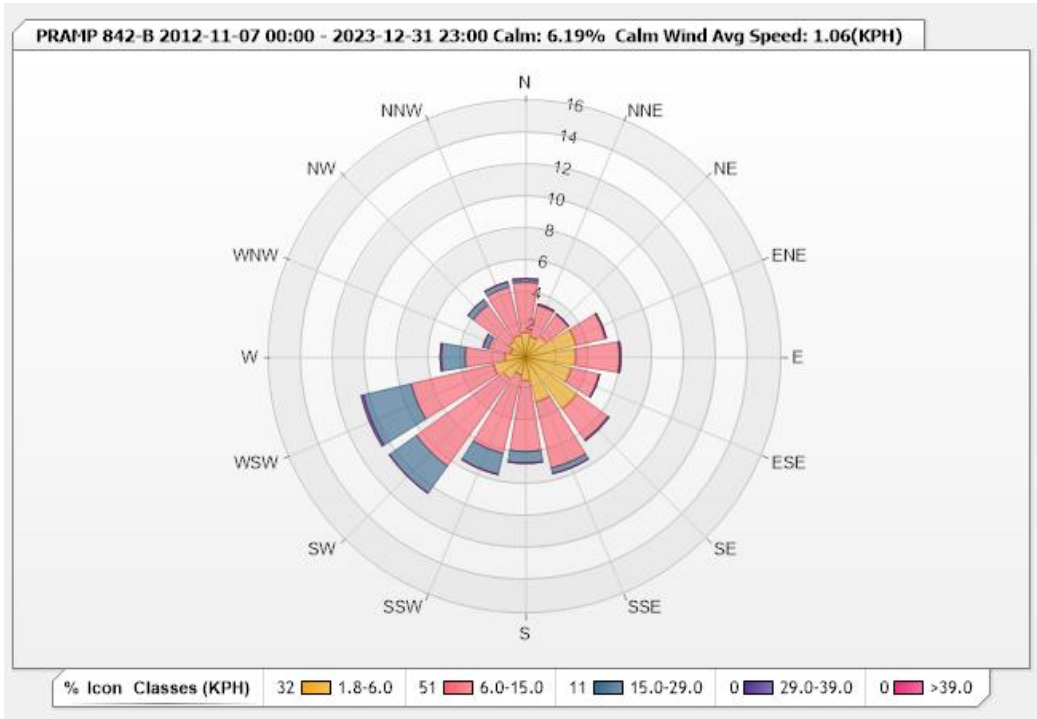
West:



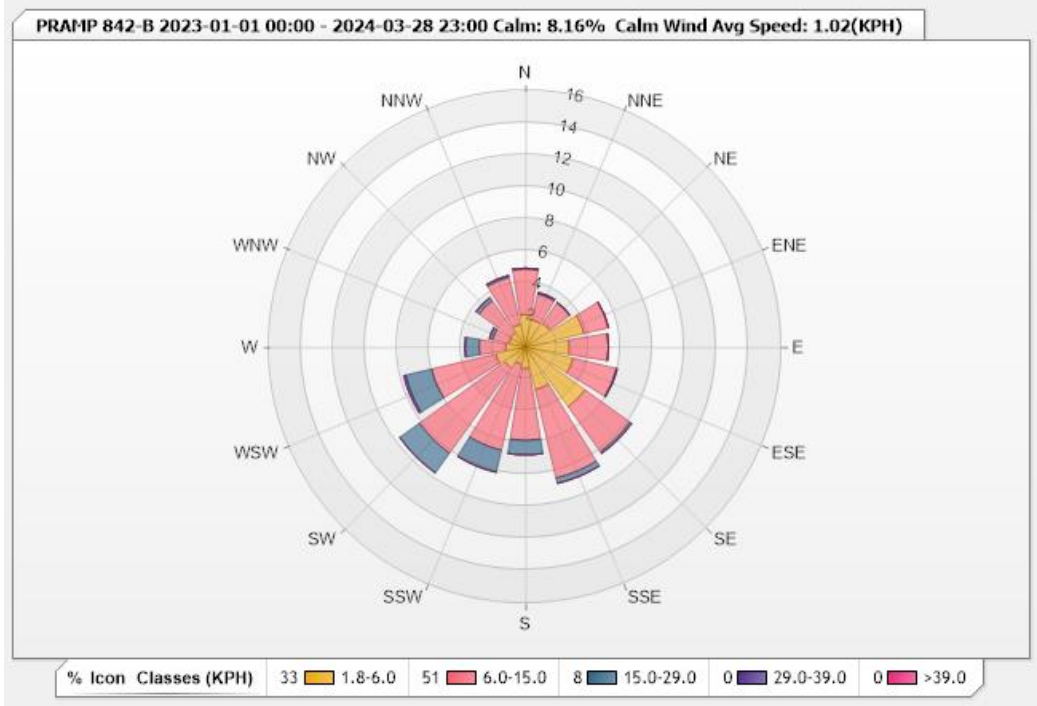
Colour picture showing the details of the sampling inlet(s) or manifold in relation to the station.



5.4 Wind Rose

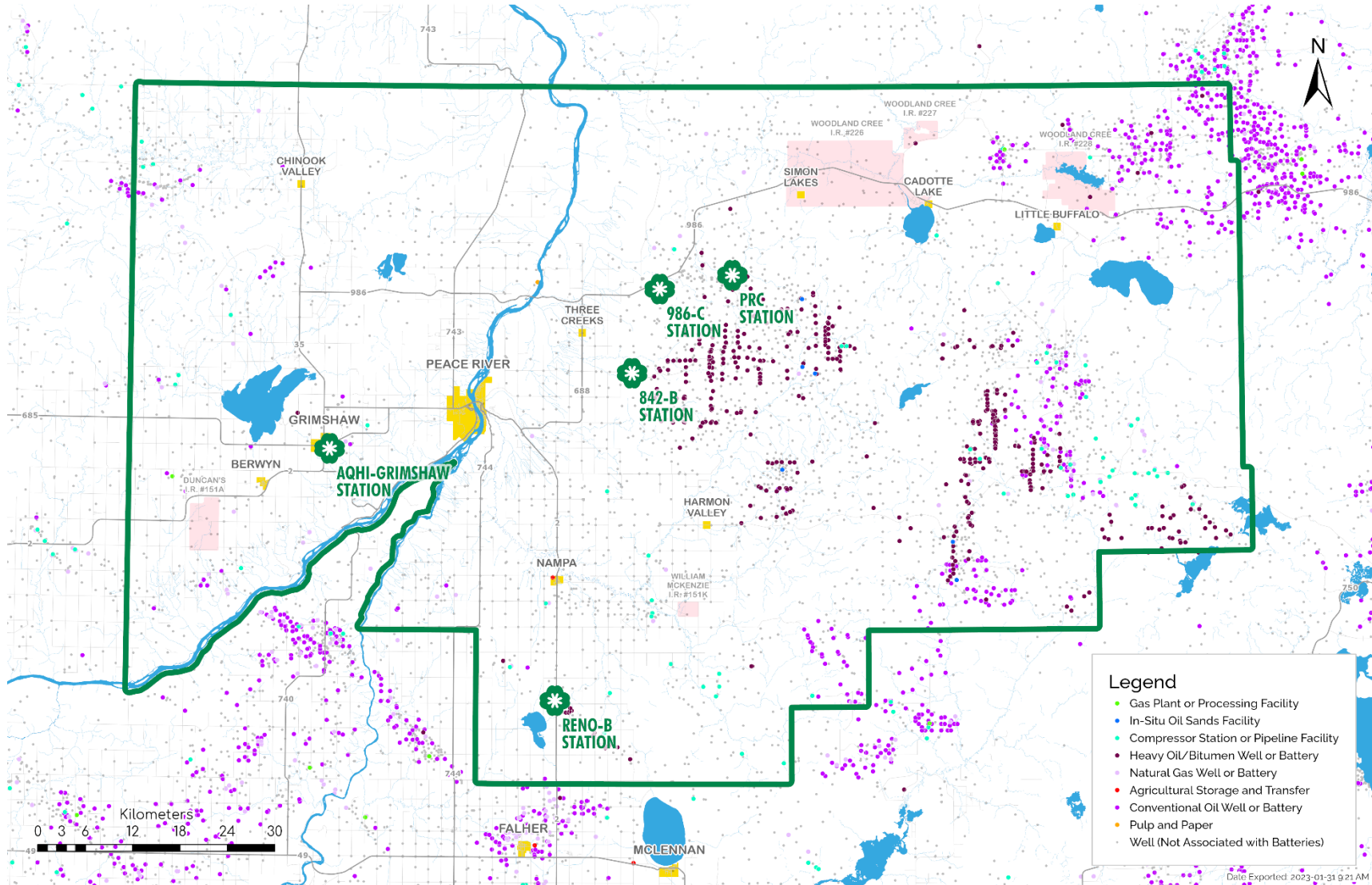


Data Period: November 7, 2012 – December 31, 2023



Data Period: January 1, 2023 – March 28, 2024

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 |
| | | | | |
| | | | | |