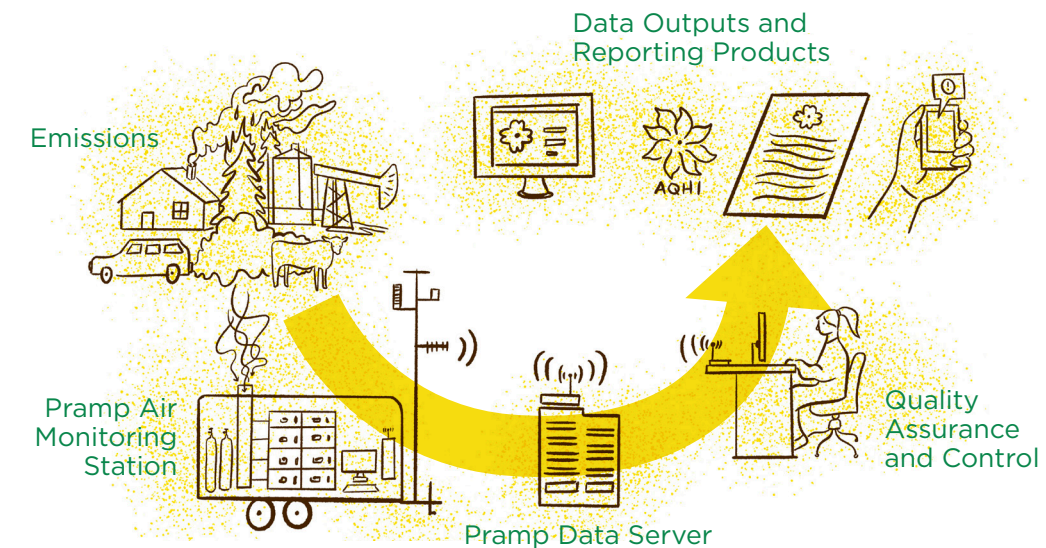


## FROM MOLECULES IN THE AIR TO AIR QUALITY DATA

How does PRAMP provide 24/7 air monitoring from different stations? Air monitoring technicians visit stations at least once a month however, analyzers in each station are generally operated remotely. The figure illustrates how molecules in the air we breathe enter the stations and ultimately provide data that is shown on the PRAMP website within an hour. Watch for our air monitoring station tours in 2021 to learn more.



## COVID-19 AND PRAMP

Public authorities, air quality stakeholders, and Albertans depend on Airsheds like PRAMP to ensure air quality monitoring, reporting, and communications are maintained with minimal interruptions. To navigate challenges posed by the pandemic, PRAMP implemented several protocols to ensure safety of contractors and staff. Measures included social distancing, providing personal protective equipment, enhanced cleaning procedures at monitoring stations, maximizing time between technicians at monitoring sites (ideally three days), and holding virtual meetings. PRAMP successfully and safely provided uninterrupted air quality monitoring services throughout the global pandemic.

## Thank You Members & Supporters

### GOVERNMENT

- Alberta Energy Regulator
- Alberta Environment and Parks
- Alberta Health Services
- Métis Nation of Alberta, Region 6
- MD of Smoky River
- MD of Peace, No. 135
- Northern Sunrise County
- Town of Falher
- Town of Grimshaw
- Woodland Cree First Nation

### COMMUNITY

- Public Members
- NAIT Centre for Boreal Research
- Grimshaw Municipal Library
- Peace River Public Library
- Peace Regional Eco Centre

### INDUSTRY

- Baytex Energy
- CNRL
- Obsidian Energy
- Tervita
- Islander Oil and Gas

## Board of Directors

### Doug Dallyn

Co-chair, Community

### Garrett Tomlinson

Co-chair, Government (Metis Nation of Alberta, Region 6)

### Anthony Traverse\*

Co-chair, Industry (Baytex Energy)

### Shelly Shannon

Secretary/Treasurer Community

### Matt Flette

Director, Industry (CNRL)

### Kenda Friesen/Art Laurin

Directors, Industry (Obsidian Energy)

### Kevin Kemball

Director, Community (NAIT Centre for Boreal Research)

### Krista Park

Director, Government (Alberta Health Services)

### Elvis Thomas

Director, Government (Woodland Cree First Nation)

### Andy Trudeau

Director, Government (MD of Smoky River)

### Gaylene Whitehead

Director, Government (Northern Sunrise County)

\* see inside panel

## Contact Us

Visit our website [PrampAirshed.ca](http://PrampAirshed.ca) for live air quality data, AQHI ratings, Dashboard Reports, resources and updates. Sign up for our newsletter.

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### Eileen Coristine, Education & Outreach Coordinator

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### Brenda Barber, Office Manager

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CELEBRATING FIVE YEARS

# ANNUAL REPORT TO THE COMMUNITY

APRIL 1, 2020 TO MARCH 31, 2021



Monitoring emissions and air quality to ensure a healthy environment in the Peace River Area.

Celebrating **5 YEARS** of Air Quality Monitoring

In 2021, PRAMP is celebrating five years as a not-for-profit, multi-stakeholder, consensus-based organization. Although air monitoring started in 2010, the past five years has been a time of significant change with variable heavy oil production, emission reductions, and increased awareness of air quality. Wildfires and associated smoke conditions are increasing, and we now have an appreciation of what it means to live and work through a global pandemic.

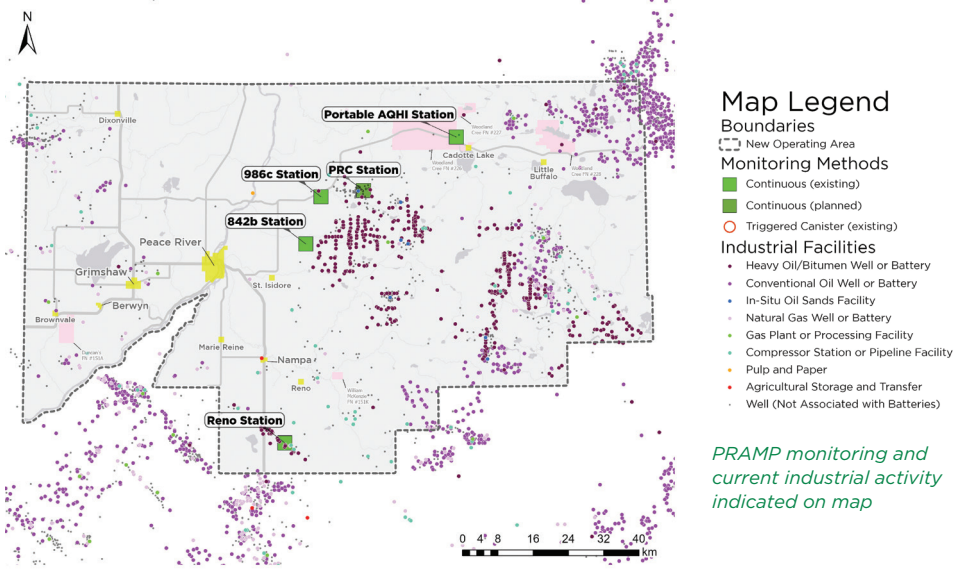
Through all of 2020-21, our directors, members, and staff demonstrated flexibility and creativity in delivering 24/7 air monitoring and reporting, new online education, and effective governance with regular online meetings for the Board of Directors, Executive Committee, Technical Working Group, and Communications Working Group. Rather than coasting through or waiting out pandemic restrictions, PRAMP provided air monitoring and reporting at all stations without any pandemic-related downtime. Education programs were delivered to several hundred students, and 32 residents received vermicomposting kits and instructions to keep waste out of landfills and reduce landfill emissions. We sincerely appreciate the efforts made by all to continue to fulfill PRAMP's mandate to work together for clean air.

PRAMP completed a review of its boundaries, and the expanded PRAMP area now includes the population centres of Peace River, Grimshaw, Cadotte Lake, and Little Buffalo. We welcomed the Town of Grimshaw and the Municipal District of Peace No. 135 as new members and look forward to working with them.

Staying connected with our stakeholders is a priority. In early 2021, we launched an extensive stakeholder engagement initiative to invite feedback on the results PRAMP has achieved and to provide input for our future goals. Staff held 12 stakeholder meetings, received written comments from six parties and gathered input from 27 online survey responders. The Board of Directors relied on the valuable input as it deliberated on the future path for PRAMP. Thank you to all who took the time to provide perspectives. Watch for more information about our new strategic plan.

PRAMP welcomes comments and questions from community members, industry operators, and government representatives. With your involvement, we can continue to help achieve healthy air quality through our monitoring efforts in the Peace River area.

**Doug Dallyn, Co-chair, Community**  
**Garrett Tomlinson, Co-chair, Government**  
**Shelly Shannon, Secretary/Treasurer**



### PRAMP'S NEW BOUNDARIES

During 2019 and 2020, PRAMP consulted with stakeholders and reviewed data on emission sources, population centres, and existing industrial air monitoring. The Board of Directors decided to expand PRAMP boundaries to include the Town of Peace River, Grimshaw, the MD of Peace and to the east of Little Buffalo.

### CAPITAL ACQUISITION PLAN IMPLEMENTATION

With the commissioning of the region's first AQHI Station in Cadotte Lake in 2019, PRAMP began the implementation of its multi-year Capital Acquisition Plan. The main objective is to shift away from renting third-party owned monitoring equipment and transition to procuring and operating a

fully PRAMP-owned regional network. While there is an upfront cost to acquiring trailers and the advanced air monitoring technologies that go inside them, there are considerable savings in the long-term. PRAMP expects its annual operating costs to decrease by up to 20% once the plan is fully implemented.

In 2020, we progressed the implementation of the plan by deploying the new PRAMP-owned 986c and 842b stations. In early 2021, PRAMP completed its procurement of equipment to replace the rented Reno monitoring station. Reno is the last station to be replaced and we expect deployment of the new monitoring station to occur in mid-2021.



### PARAMETER MATRIX

Monitoring Method	Parameter	Station Name						
		986c	842b	Reno	AQHI (Cadotte Lake)	Peace River (above valley)	Peace River (in valley)	Nampa
Continuous	Sulphur Dioxide	√	√	√	√			
	Total Reduced Sulphurs	√	√	√	√			
	Hydrocarbons <i>Total Methane, &amp; Non-Methane</i>	√	√	√	√			
	Oxides of Nitrogen <i>Total Nitric Oxide, Nitrogen Dioxide</i>				√			
	Ozone				√			
	Fine Particulate Matter <i>Particles ≤ 2.5 Microns in Diameter</i>				√			
	Wind <i>Speed &amp; Direction</i>	√	√	√	√			
	Precipitation	√	√	√				
	Climate Variables <i>Temperature, Relative Humidity, Barometric Pressure</i>	√	√	√	√			
	Air Quality Health Index (AQHI) <i>Third-Party Calculated Multi-Parameter Index</i>				√			
Intermittent	Non-Methane Hydrocarbon Canister	√	√	√				
	Methane Canister	√	√	√				
Passive	Polycyclic Aromatic Compounds	√						
Small Sensor	Fine Particulate Matter <i>Particles ≤ 2.5 Microns in Diameter</i>	√		√	√	√	√	√
	Climate Variables <i>Temperature, Relative Humidity</i>	√		√	√	√	√	√
	Air Quality Health Index Plus (AQHI+) <i>Third-Party Calculated Single-Parameter Index</i>	√		√	√	√	√	√

### SCHOOL PROGRAM SUCCESS

PRAMP continued to support students and homeschoolers through online vermiculture workshops over the 2020-21 school year. At the beginning of the school year we delivered vermiculture starter kits to grade four classes which included composting bins, Red Wiggler worms, and bedding materials. Through our online visits, students learned how to care for and feed their worms, and how vermicomposting positively impacts air quality because less waste is delivered to landfills where it could cause pollution.

In the spring, students (including 95 homeschoolers) received a bean seed, compostable plant pot, potting soil, and supplemental vermicompost. Through an online session they learned how to successfully grow vegetables in harvested vermicompost.

### REACHING OUT IN NEW WAYS

Over the year, PRAMP implemented new ways of enhancing outreach efforts including our purchase of a large canopy and prize wheel to engage people at tradeshows and events.

Working with a local radio station, PRAMP began announcing daily AQHI ratings and advertising our programs. Our vermicomposting workshop also received media coverage through an August article in the regional newspaper Mile Zero Banner Post.

To celebrate Clean Air Day 2020, we ran a successful photo contest which resulted in 400 new followers to our Facebook and Twitter accounts, as well as a collection of beautiful local photos. PRAMP also promoted Alberta Airsheds Council Healthy Communities Need Clean Air contest for kids and our winning entry was from grade five Grimshaw student Lena for her creative song about stopping air pollution.

PRAMP formed new partnerships with the Grimshaw Municipal Library, Peace River Public Library, Peace Regional Eco Centre, and the NAIT Centre for Boreal Research.

Outdoor summer vermicomposting workshops were held at the libraries with 32 participants attending. NAIT facilitated a webinar to share PRAMP air monitoring results and developed a video of the vermicomposting workshops to promote future presentations.

### INDIGENOUS OUTREACH

In late 2020, PRAMP welcomed our new Indigenous Engagement Assistants. Their role is to develop, maintain, and enhance PRAMP relations with Indigenous communities and organizations within and near PRAMP boundaries including schools, communities, and government agencies. In 2021, we will be expanding our Indigenous outreach work.



## PRAMP Summary of Revenue and Expenses

April 1, 2020 to March 31, 2021

### REVENUE

Oil Sands Monitoring Service Contract	2020-21	1,054,767
Education and Outreach Grant		59,296

### MONITORING AND REPORTING EXPENSES

Monitoring Expenses	62,031
Station Management	252,245
Program Management	177,600
Report Production	53,985
Amortization	148,629
Society (Office) Management	54,590
Capital Acquisition	274,355

**Total Contract Expenses** **1,023,435**

### EDUCATION AND OUTREACH GRANT EXPENSES

Outreach Materials and Promotion	6,879
Planning and Delivery	36,510
Advertising	8,115
Community Events and Travel	5,391
Photography and Supplies	2,400

**Total Grant Expenses** **59,295**

\*Anthony Traverse resigned from the PRAMP Board of Directors in 2021. He served as a director representing Baytex Energy since PRAMP's inception and played a key role in air monitoring and reporting in the area before PRAMP was in place. PRAMP members and directors sincerely appreciate Anthony's dedication and his significant contributions during the many years he was involved in air monitoring in the Peace River area. Baytex Energy remains an active member and supporter for PRAMP.

