

# Looking Back, Looking Ahead

## Annual General Meeting

June 20, 2023



**pramp**  
PEACE RIVER AREA MONITORING PROGRAM

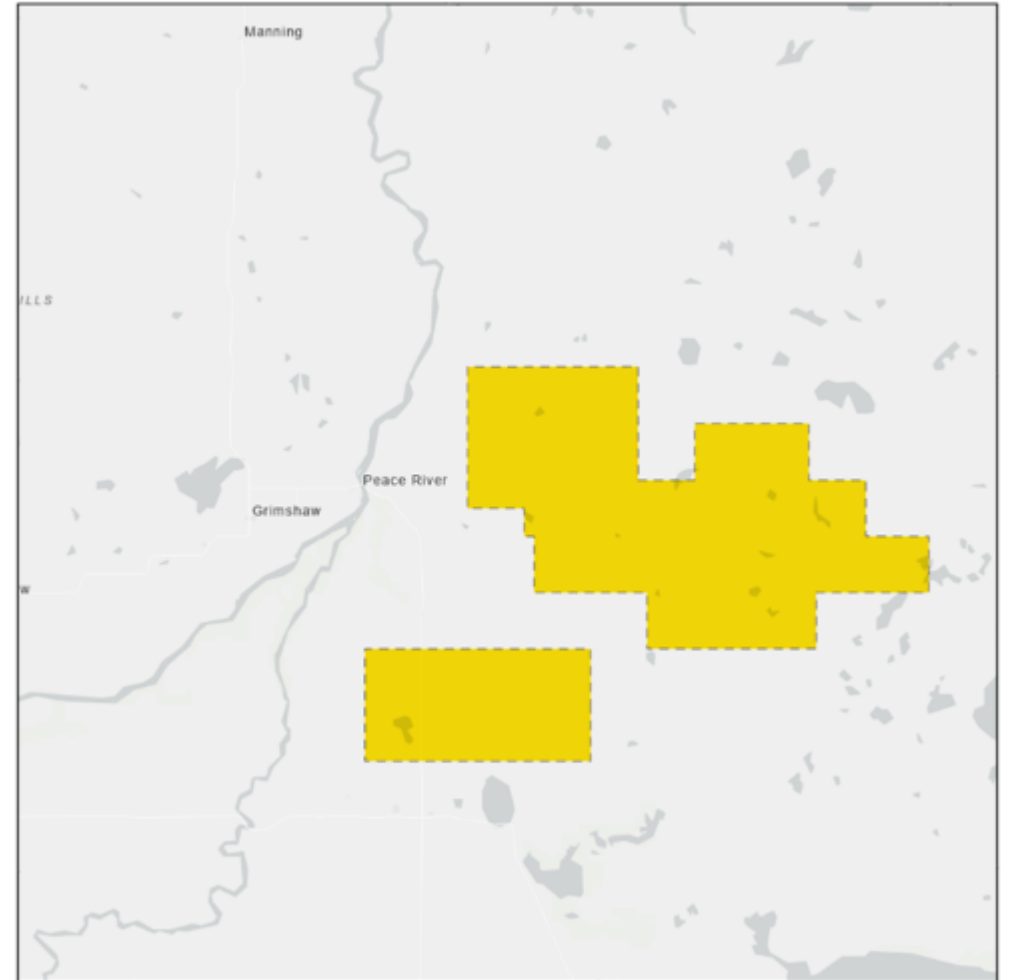
# History of PRAMP

- Air monitoring in the Peace River area began in 2010
- Residents were concerned about odours, emissions, and health impacts
- Community members, industry, local government and the Government of Alberta began working together to address concerns
- Alberta Energy Regulator held an inquiry in 2014, and PRAMP formalized in 2015



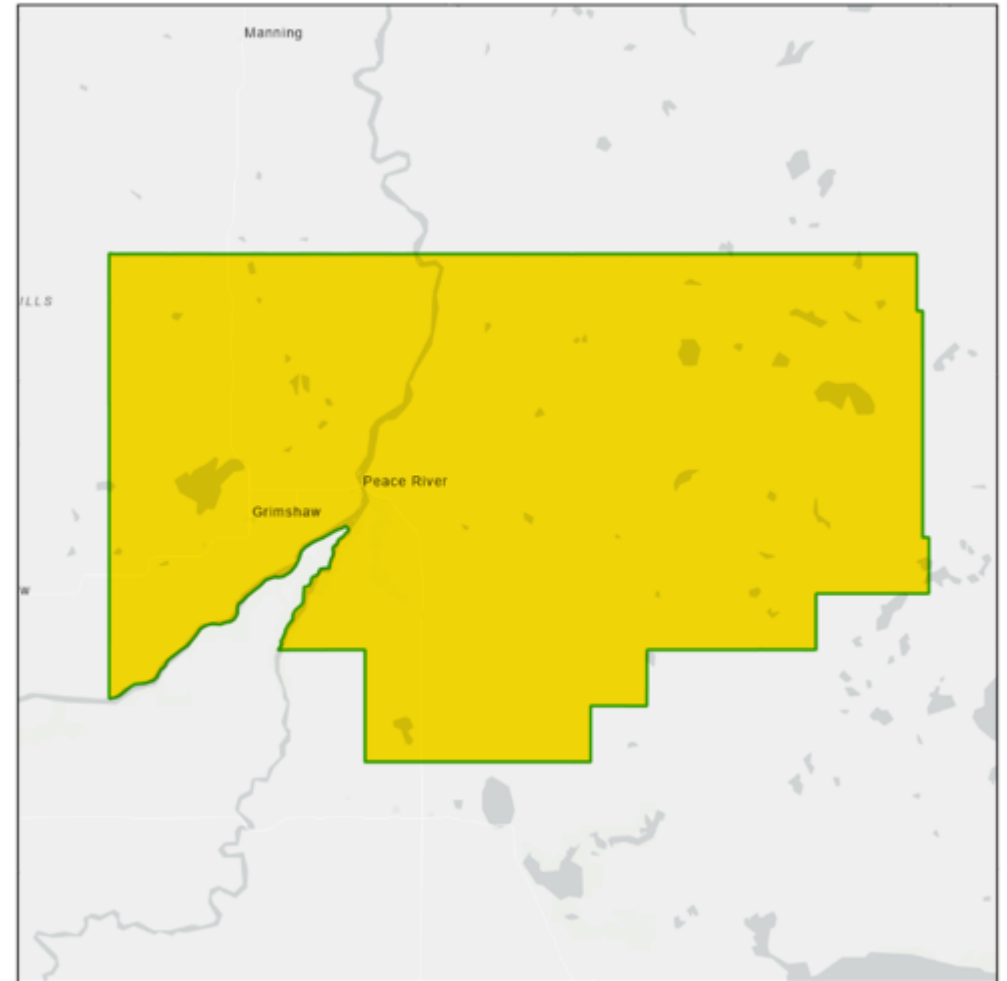
# Part of a Bigger Picture

- Data from PRAMP's network continues to support outcomes of Directive 84



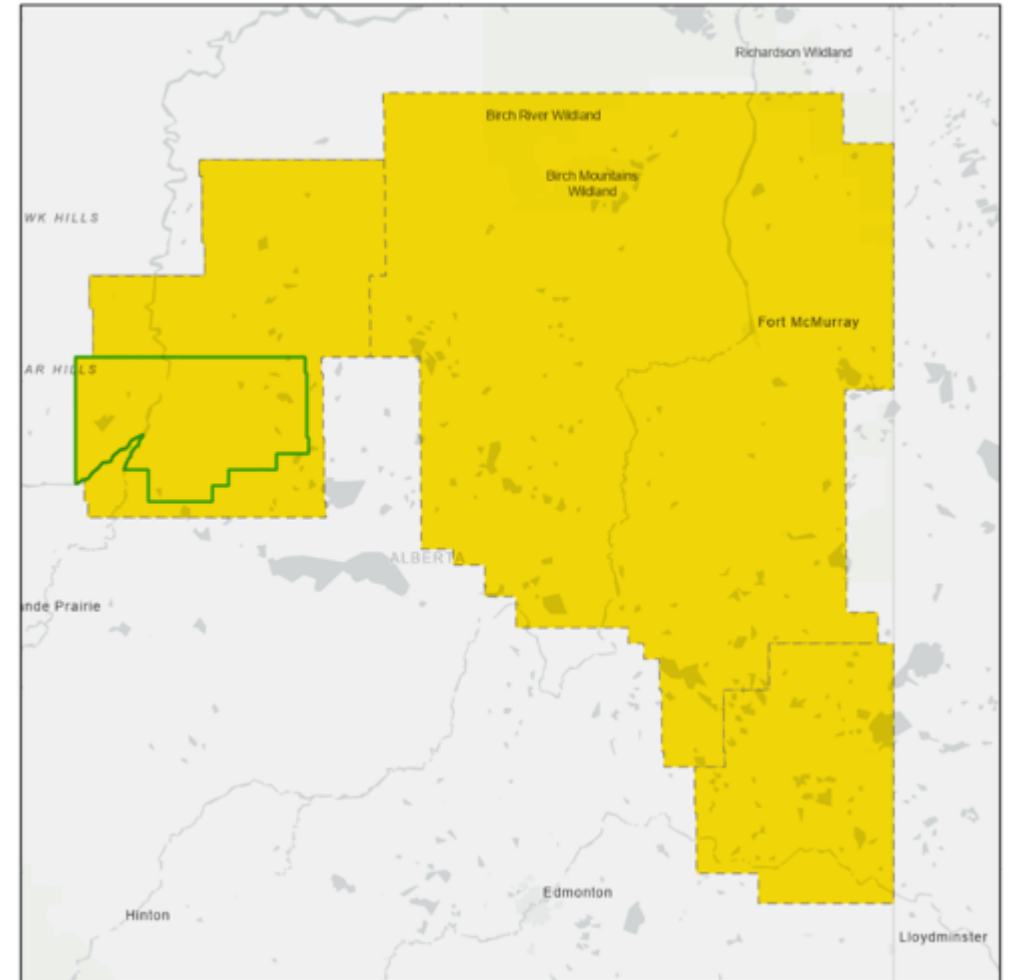
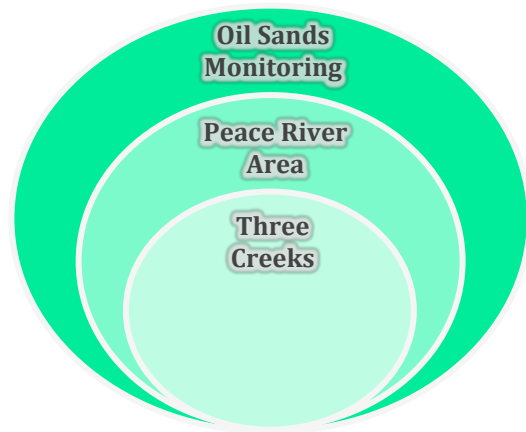
# Part of a Bigger Picture

- PRAMP monitors and provides data to respond to local air quality issues
- Educates locally about air quality issues



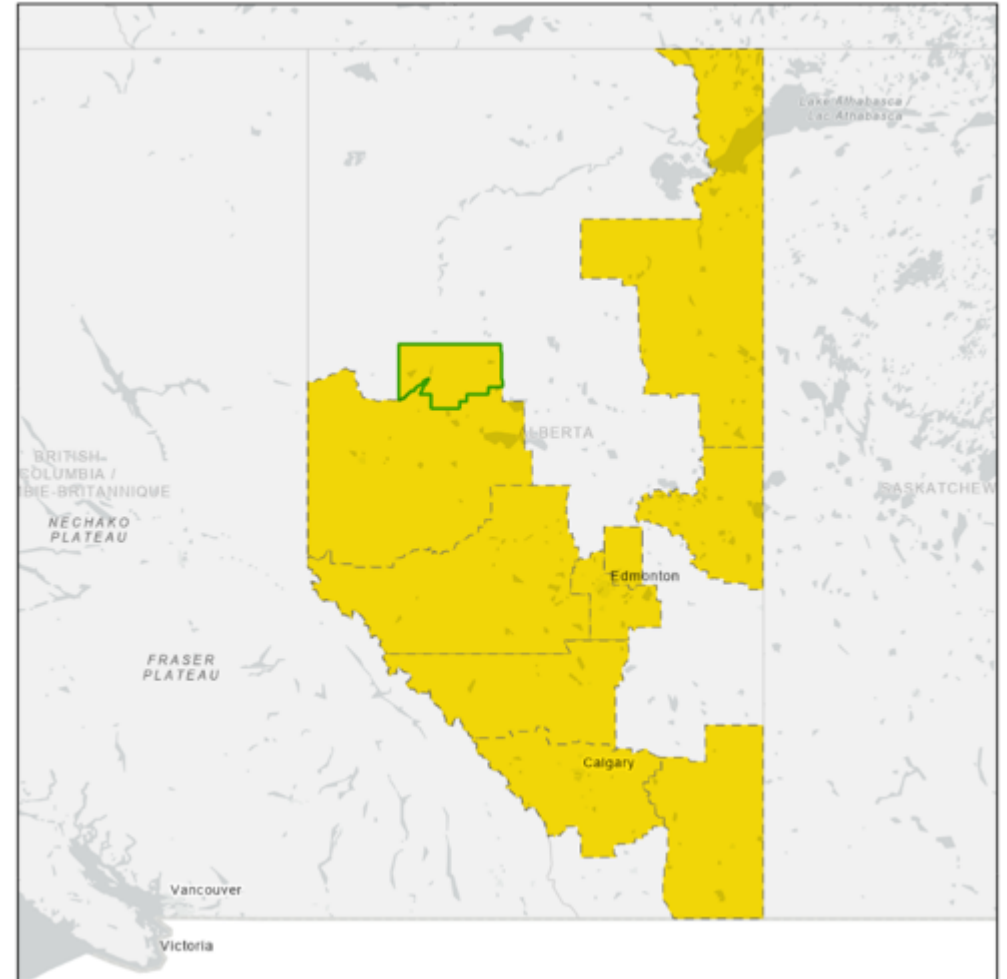
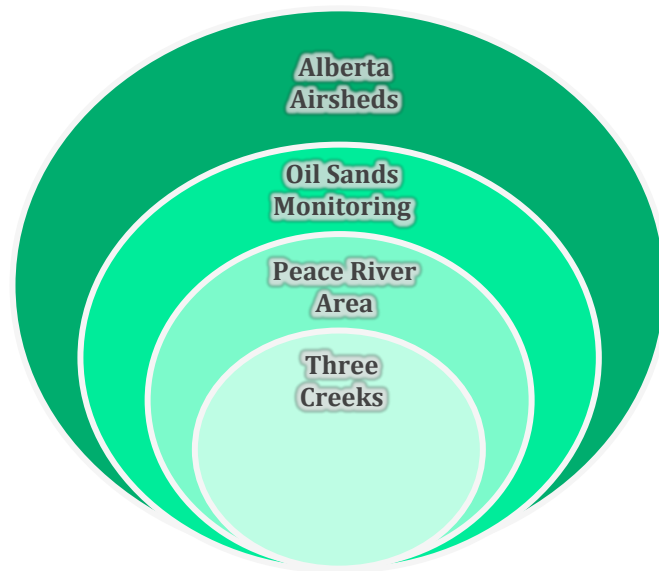
# Part of a Bigger Picture

- PRAMP provides air quality data and analysis that contribute to environmental impact analysis for the oil sands region



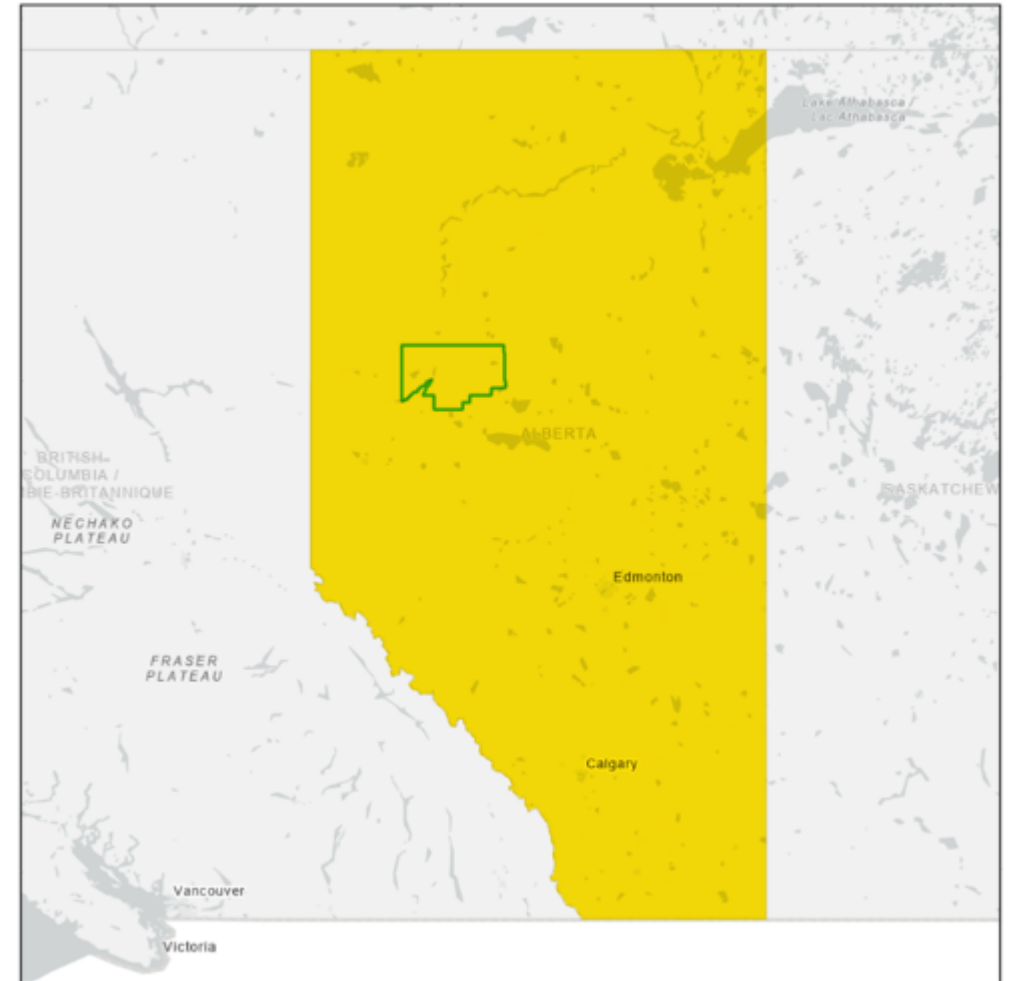
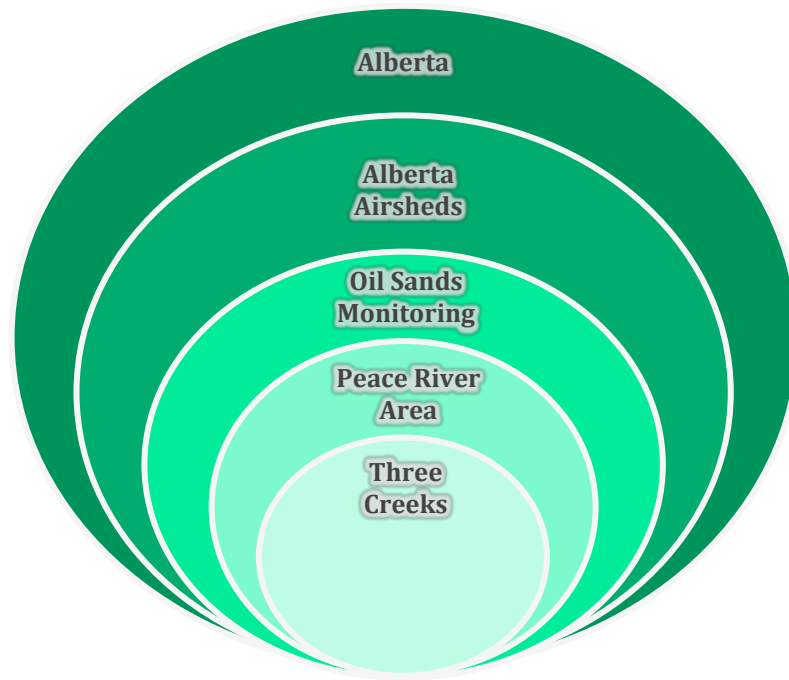
# Part of a Bigger Picture

- PRAMP shares technical and education best practices as part of the Alberta Airsheds Council
- Contributes to the air quality monitoring “grid” in the province



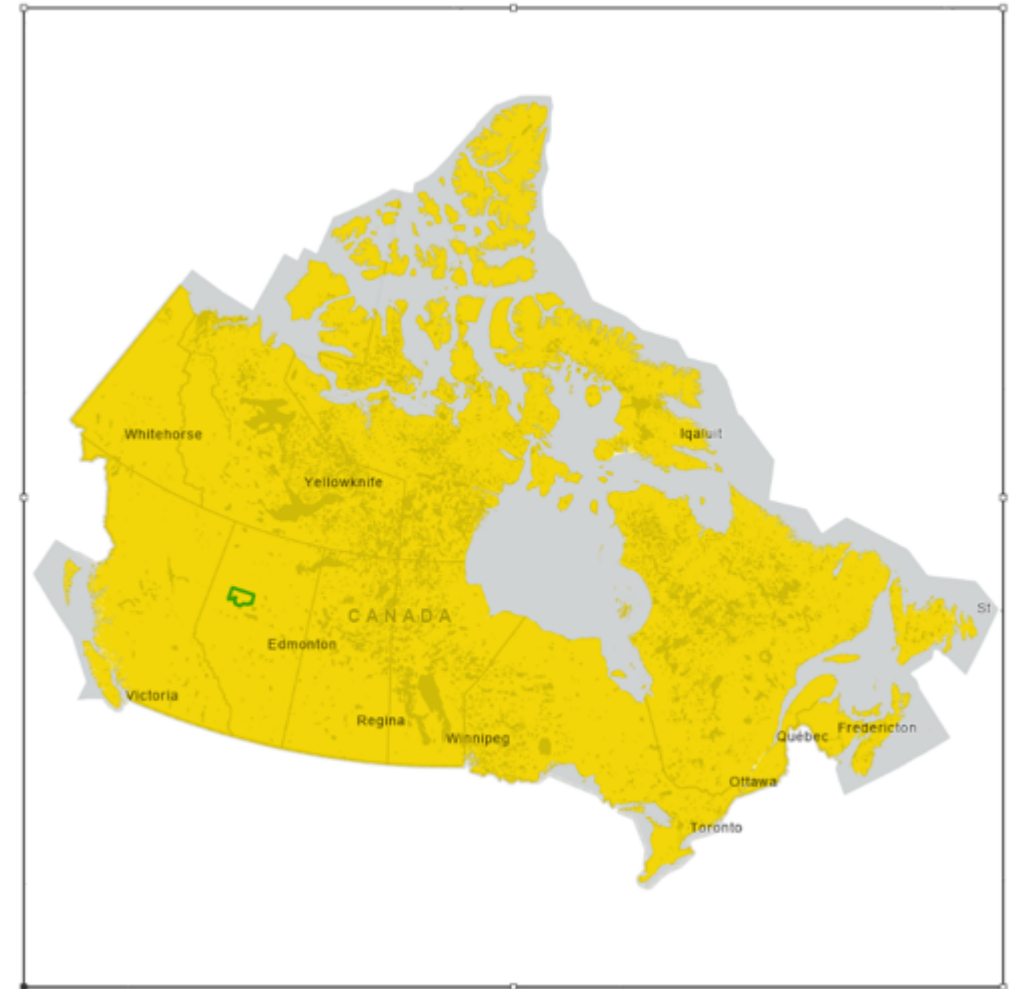
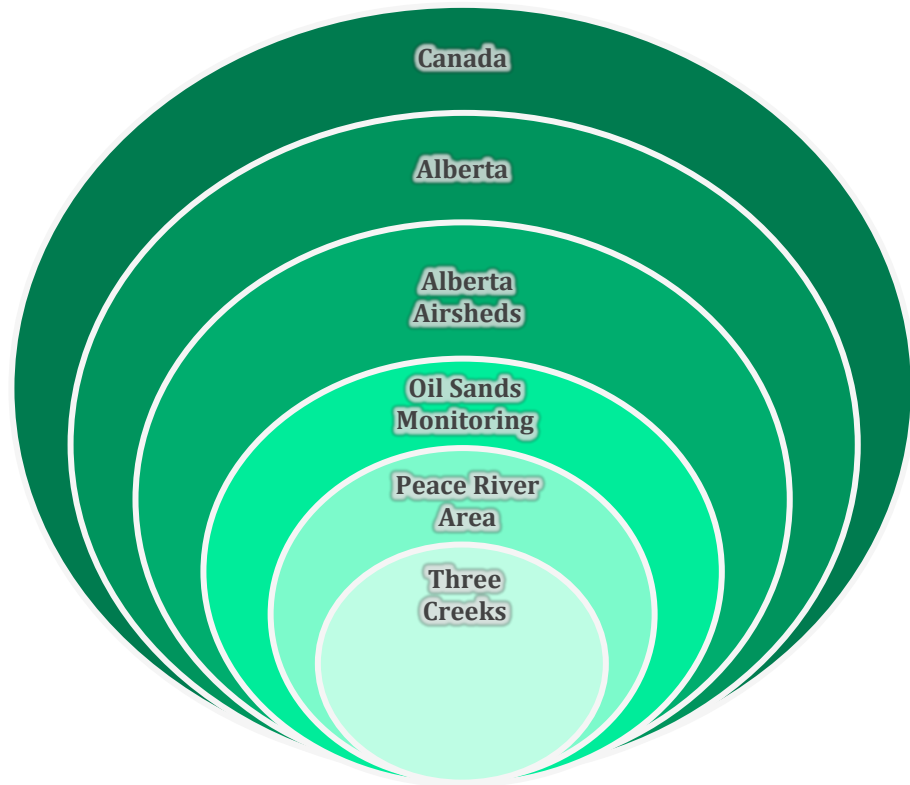
# Part of a Bigger Picture

- PRAMP provides data for Air Quality Health Index and compliance monitoring
- Contributes to air quality policy and practices (through the Clean Air Strategic Alliance)



# Part of a Bigger Picture

- Federal Air Quality Management System
- Canadian Ambient Air Quality Standards (CAAQS)

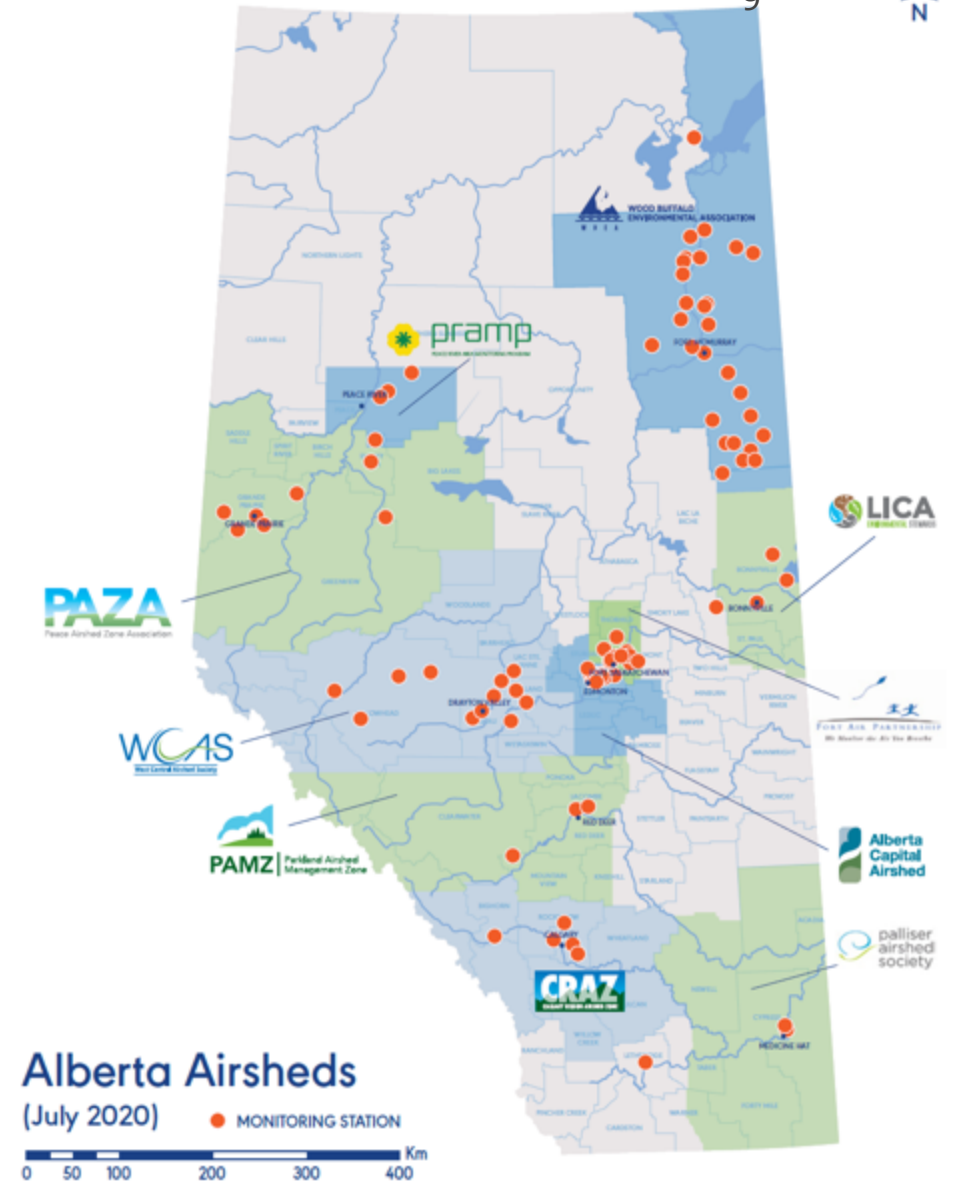




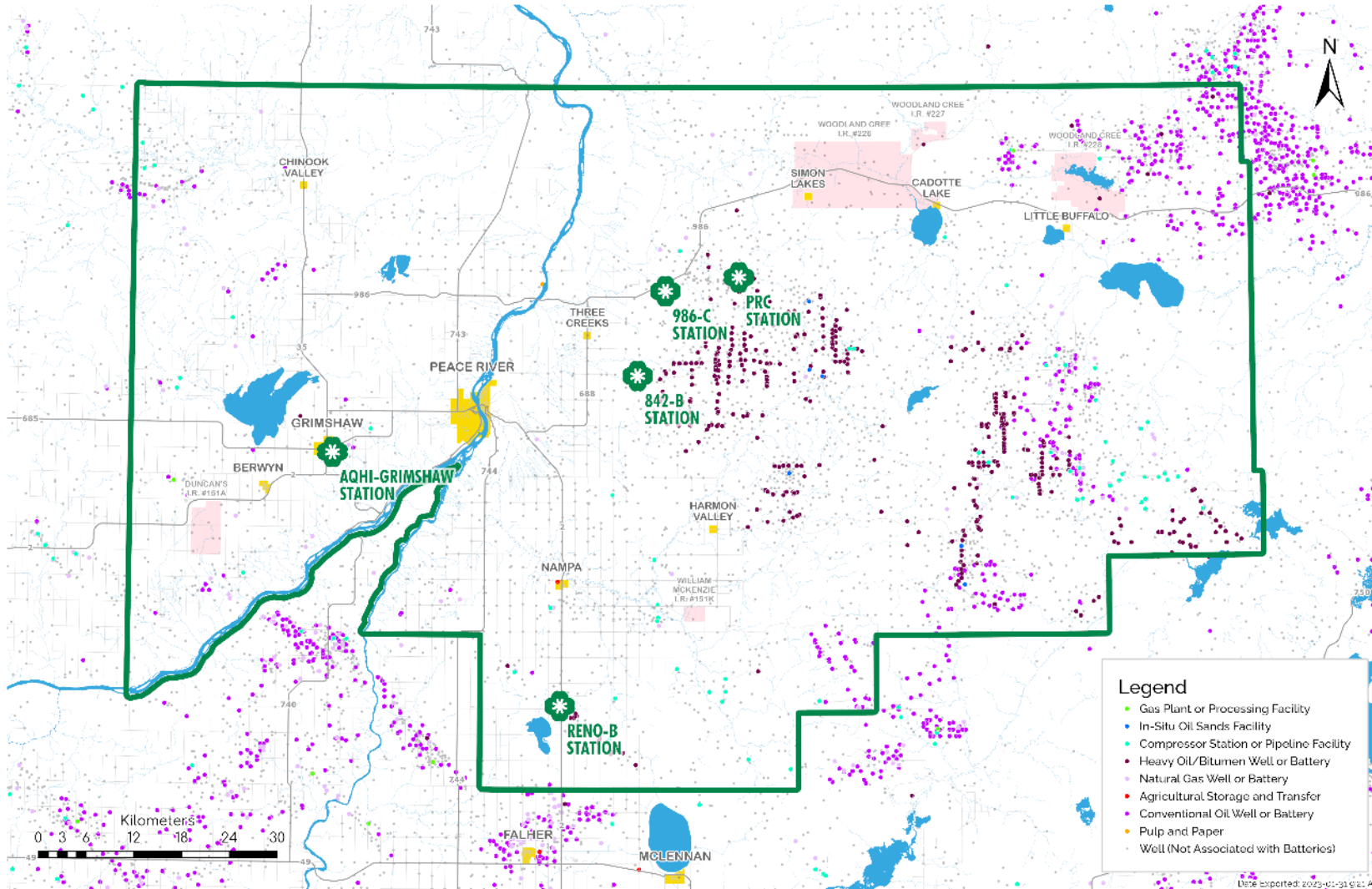


# Alberta's Airsheds

1. West Central Airshed Society (1995)
2. Wood Buffalo Environmental Association (1997)
3. Parkland Air Management Zone (1997)
4. Fort Air Partnership (1997)
5. Peace Airshed Zone Association (2002)
6. Palliser Airshed Society (2003)
7. Lakeland Industry and Community Association (2006)
8. Alberta Capital Airshed (2006)
9. Calgary Region Airshed Zone (2007)
10. Peace River Area Monitoring Program (2016)



# Monitoring Network



## Monitoring Methods

### Continuously Monitored:

Sulphur Dioxide, Total Reduced Sulphurs, Methane, Non-Methane Hydrocarbons, Ozone, Fine Particulate Matter, Nitrogen Oxides, Hydrogen Sulphide, Wind Speed, Wind Direction, Relative Humidity, Temperature, Barometric Pressure

### Intermittently Monitored:

Volatile Organic Compounds

### Passively Monitored:

Sulphur Dioxide, Hydrogen Sulphide, Polyaromatic Hydrocarbons

### Monitored with Small Sensors:

Particulate Matter



## Goal 1

Evidence-driven verification that air quality in the Peace River area is at acceptable levels and that emissions are being minimized

## Goal 2

Residents and stakeholders have timely access to air quality data and information in a manner that is readily understood



Station 842b



## Goal 3

Educators, community groups and citizens can access resources to increase understanding of and promote healthy air quality

## Goal 4

Recognized as an independent not-for-profit organization and Airshed that is focused on continuous improvement and responsible leadership in air quality monitoring

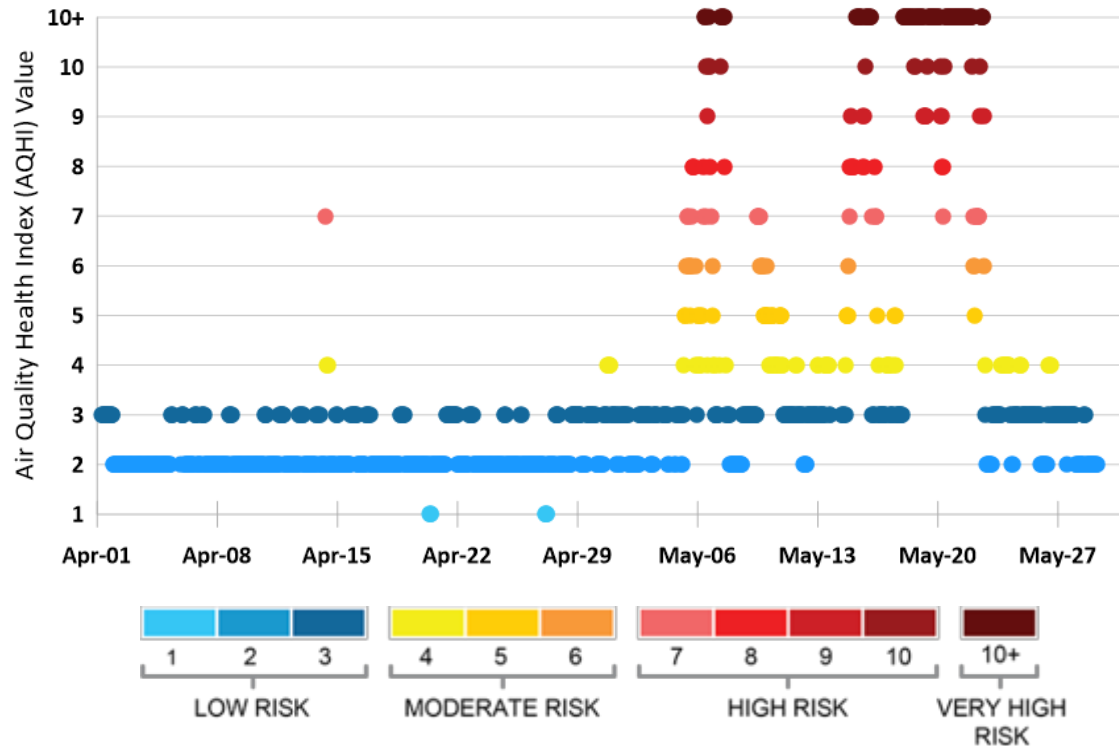


Portable AQHI Station in Grimshaw - student tour



# PRAMP Provides Relevant and Timely Information to Area Residents

PRAMP - AQHI Monitoring Station  
TOWN OF GRIMSHAW  
April 1, 2023 - May 31, 2023



GLOBAL NATIONAL

## Alberta wildfires: Smoke triggers air quality warnings across province

Posted May 16 2023 06:43pm

With dozens of wildfires burning across Alberta, a shift in the wind has pushed forest fire smoke throughout the province. Heather Yourex-West reports on the worsening air quality, how long the smoke could stick around, and the message to Albertans.



Big parts of Alberta, including Edmonton, still under high-risk air quality advisories



# 2023/24 Priorities

Core monitoring, reporting and outreach PLUS:

- Network Assessment Implementation
- Relocate Portable AQHI Station
- Mercer Air Monitoring
- New Services for Members



# Network Assessment: Continuous Improvement

**Third-party review  
Finalized in December 2022**

## **Are we monitoring:**

**the appropriate suite of  
parameters?**

**at suitable locations?**

**at an acceptable frequency?**

**for the right duration?**

**using the best methods?**

**with the correct technology?**

## **Key results:**

- Retain stations at current locations
- Consider reducing or relocating passive monitors
- Consider passive or lower-cost technology for SO<sub>2</sub> and VOC monitoring



# Relocate Portable AQHI Station

- Intent is to move to a new location every 18-24 months
- Consultation process to understand any air quality issues and decide on a new location for Fall 2023

## Air Quality Health Index (AQHI) Station Consultation

The Peace River Area Monitoring Program (PRAMP) operates 5 air monitoring stations in the Peace River area. One of the stations – the Portable AQHI Station – is moved to a new location in the area every 18 to 24 months. Moving the station provides air quality information for more locations in the region. The station has been in Grimshaw since November 2021 and prior to Grimshaw, the station was located near Cadotte Lake. PRAMP is planning to move the Portable AQHI Station in the fall of 2023. This short survey is part of PRAMP's consultation process to identify and assess possible locations for the station. If you have questions about the survey or PRAMP's air monitoring program, please contact PRAMP's Technical Program Manager, Mike Bisaga at [pramptech@prampairshed.ca](mailto:pramptech@prampairshed.ca).

1. We'd like to know your general perception about local air quality. How would you rate the overall air quality in the Peace River and surrounding area (scale of 1-5)? *Required*

- 1 = poor  
 2 = poor to fair  
 3 = fair  
 4 = fair to good  
 5 = good

2. Are you aware of concerns about air quality in the Peace River or PRAMP area (refer to map for PRAMP area boundaries)? *Required*

- YES  
 NO





# Mercer Air Monitoring



- Reviewing options for PRAMP to provide air monitoring services for Mercer
- Alberta Environment supports establishing a permanent AQHI monitoring station in Peace River



# New Services for Members

Explore how we can support PRAMP members, e.g.,

- Purple Air sensor for local air quality info
- Safety modules about air quality
- Internal newsletter articles about air quality
- Establishing idle-free zones



Purple Air Sensor



Treaty Days – Duncan's First Nation



**Thank you!**  
**Questions?**



# Appendix – Additional Slides



# Monitoring Methods: Continuous (exterior)<sup>21</sup>



# Monitoring Methods: Continuous (interior)



# Monitoring Methods: Intermittent



# Monitoring Methods: Passive





# Monitoring Methods: Small Sensor

