



**PRAMP Board Meeting
September 8, 2023**

Item 4A: PRAMP Operating Plan 2021-2023

For Discussion: Staff is providing an updated Operating Plan to reflect results achieved up to August 30, 2023.

Introduction

Based on the Goals and Strategies approved at the June 24, 2021 meeting, staff prepared the 2021-23 Operating Plan to describe the Actions and Timing to achieve the Goals and Strategies. It is a working document for PRAMP staff.

Goal			
1. Evidence-driven verification that air quality in the Peace River area is at acceptable levels and that emissions are being minimized			
Strategies	Actions	Timing	Update 30Aug2023
1.1 Conduct a Monitoring Network Assessment that includes: <ul style="list-style-type: none"> • the level of monitoring appropriate for heavy oil production in light of current conditions • changes appropriate for the network if the two Mercer stations, the PRC station and passive monitors are added to the PRAMP network 	<ul style="list-style-type: none"> • Prepare project plan, form project team, draft RFP (September) • Issue RFP and assess results (October) • Compile PRAMP data (October) • Select contractor (Nov) • Implement Project Plan (Nov/Dec) 	Sept 2021 to Nov 2022 (<i>costs allocated between 2 fiscal years</i>)	COMPLETE <ul style="list-style-type: none"> • Results shared with TWG in March, June and August 2022 • Draft report presented at AGM Sept 2022 • Final Report accepted by the Board in Dec 2022
1.2 Assess results of the Network Assessment and implement changes as determined by the Board	<ul style="list-style-type: none"> • Present results to the Board 	Fall 2022 Summer 2023	<ul style="list-style-type: none"> • In Dec 2022, Board directed staff to investigate next steps included in the Network Assessment report



			<ul style="list-style-type: none"> Staff deployed 2 new PurpleAir sensors and are continuing to assess options for other low cost sensors
1.3 Assess the costs and benefits for PRAMP, Mercer and the community if PRAMP were to assume operation of the Mercer air monitoring network	<ul style="list-style-type: none"> With Mercer, establish and implement approach to evaluate monitoring options 	Summer 2022	<ul style="list-style-type: none"> Met with Mercer in November 2021 PRAMP conducted audit for Mercer in Dec/Jan 2021 Met with Mercer to discuss next steps in June 2022 In Dec 2022, PRAMP staff submitted to Alberta EPA a Mercer/Alberta EPA cost sharing option for a Peace River AQHI-enhanced station
1.4 Determine whether the two Mercer stations will be incorporated into the PRAMP network	<ul style="list-style-type: none"> Present options to the Board for Mercer stations 	<p>Winter 2023</p> <p>Summer 2023</p>	<ul style="list-style-type: none"> In Jan 2023, Mercer indicated it wants to proceed to integrate 2 Mercer stations into PRAMP network PRAMP staff working with Mercer and EPA on possible integration plan, including costs and timing PRAMP staff met with Mercer to discuss monitoring program integration, equipment ownership, and potential path forward. Staff met with EPA staff to keep abreast of the Mercer approval amendments; no update from Mercer on moving forward with PRAMP monitoring
1.5 Maintain operation of all PRAMP air monitoring stations to achieve the objectives of the OSM contract and in compliance with the Air Monitoring Directive unless or until	<ul style="list-style-type: none"> Operate and maintain the Peace River area continuous monitorings stations: <ul style="list-style-type: none"> Reno 986 	On-going	<ul style="list-style-type: none"> Monitoring program at Cadotte Lake concluded on Nov 23, 2021. AQHI station moved to Grimshaw and operational on Dec 1, 2021



<p>a change in the network is decided by the Board and informed by the Network Assessment</p>	<ul style="list-style-type: none"> ○ 842 ○ AQHI station ● Oversee routine calibrations and preventative maintenance for all stations in the PRAMP network in accordance with the Air Monitoring Directive (AMD) ● Relocate stations as needed to remain in compliance with the AMD and to respect landowner interests. ● Operate passive monitoring stations in the Peace River area (<i>when PRAMP assumes operation of the PRC passive network</i>) ● Participate in Oil Sands Monitoring (OSM) Program and Alberta Airsheds Council committees and activities related to optimizing and improving the active air and atmospheric deposition monitoring network in the Peace River area. 		<ul style="list-style-type: none"> ● PRAMP assumed operations of the PRC monitoring station and passive network on March 1, 2022 ● Reno station with PRAMP-owned trailer operational at new site B in December 2022 ● QAP audit complete in April 2022; plan for implementation of recommendations is in progress and will be complete in Spring 2024. Seeking 3rd party support for development and implementation of QAP revisions. ● Consultation for next location of AQHI Station will commence in Spring 2023 ● Consultation survey open in Spring and Summer 2023; TWG reviewed results in August 2023
<p>1.6 Data reporting meets or exceeds provincial requirements and regulatory compliance commitments</p>	<ul style="list-style-type: none"> ● Meet or exceed AMD requirements with real-time air quality data to AEP as well as monthly and annual reports. ● Prepare an Annual Data Review for the previous two 	<p>On-going</p>	<p>All requirements met.</p> <p>New initiative – PRAMP Technical Program Managers proactively developed new process to review PRAMP data that aligns with new AEP annual data review methodology</p>



	calendar years (by September).		<p>2019-2020 Annual Data Review – posted on PRAMP website</p> <p>2021 Annual Data Review – approved by the Board in December 2022</p> <p>2022 Annual Data Review – for review by the Board in September 2023</p>
<p>1.7 Data is analyzed to confirm that results do not exceed Alberta Ambient Air Quality Objectives and Guidelines and Canadian Ambient Air Quality Standards where applicable</p>	<ul style="list-style-type: none"> Report exceedances of the AAAQO Objectives and Guidelines and CAAQS (Data are not compared with the CAAQs, only AAAQOs/AAAQGs). We could say <i>“Report exceedances of the AAAQO Objectives and Guidelines and generate data needed for determination of CAAQS achievement.”</i> 	<p>On-going</p>	<p>April 1 to Oct 31 – 25, 2022 contraventions (including uptime less than 90%) and all were reported to AEP in accordance with AMD</p> <p>November 1 to April 30, 2022 – 3 contraventions were reported to AEP in accordance with AMD; and 90% uptime requirement was achieved for all stations; all</p> <p>May 1, 2022 to December 31, 2022 – 38 contraventions (including uptime less than 90%) and all were reported to AEP in accordance with AMD</p> <p>Analysis of a ransomware attack at station 842-B lead to implementation of better practices to prevent future occurrences. Lessons learned were presented and shared with members of the AAC-TC.</p> <p>January 1, 2023 to July 31, 2023 – The 2023 Wildfire season is an exceptional year both in terms of the intensity and duration of smoke events associated with local and distant fires. By the end of July 2023, there were 415 exceedances of the 1-hour PM_{2.5}</p>



			<p>AAAQG and 39 exceedances of the 24-hour PM_{2.5} AAAQO reported to EPA. Due to both a more stringent O₃ AAAQO and optimal conditions for the formation of ground-level ozone in western Canada, PRAMP reported 2 exceedances of the 1-h AAAQO for O₃ during the first half of 2023. Four non-compliance events (uptime less than 90%) were recorded. All events were reported to AEPA in accordance with AMD.</p>
Goal			
2. Residents and stakeholders have timely access to air quality data and information in a manner that is readily understood			
Strategies	Actions	Timing	Update 30Aug2023
2.1 Engage stakeholders to identify areas for improvement with PRAMP communications (website, newsletter, social media)	<ul style="list-style-type: none"> Conduct survey to identify key information for stakeholders and preferred communication channels. 	Winter 2022	Survey conducted at community events in Spring 2023; 135 responses received; results reviewed by the Communications Working Group (Aug2023) and shared with the Board (Sept 2023)
2.2 Develop an Indigenous Outreach Plan	<ul style="list-style-type: none"> Prepare contact list for Indigenous communities within or near PRAMP boundaries. Identify approaches to engage in 2-way dialogue with Indigenous communities within or close to PRAMP boundaries. 	On-going	<p>Reach out to Indigenous communities and schools to offer information and presentations.</p> <p>Participated in Treaty Days at Duncan's First Nation (2022 and 2023) and Woodland Cree First Nation (2022, poor air quality prevented participation in 2023)</p>
1.7 Micro-sensors, passive monitors and other low cost monitors are	<ul style="list-style-type: none"> Deploy 3 additional PurpleAir particulate matter monitors 	On-going	Currently have sensors at Reno, Nampa, 986, 842, Grimshaw and 2 in Peace River.



deployed to address community concerns and to assess viability of lower cost monitoring	<p>in locations with existing wifi and power sources.</p> <ul style="list-style-type: none"> Assess options for tracking and sharing PurpleAir data 		Additional sensors placed in Cadotte Lake and near Grimshaw in Summer 2023
1.8 Deliver timely, relevant and accessible air quality data so that residents can make informed choices in support of human health and the environment	<ul style="list-style-type: none"> Provide near real-time air quality data on the PRAMP website. Provide AQHI data on the PRAMP website, social media and local radio. 	On-going	<p>AQHI lanterns:</p> <ul style="list-style-type: none"> PR Health Centre (Fall 2021) Grimshaw Library (Winter 2022) Northern Sunrise County Office (Spring 2022) Cadotte Lake (Summer 2023)
Goal			
3. Educators, community groups and citizens can access resources to increase understanding of and promote healthy air quality			
Strategies	Actions	Timing	Update 30Aug2023
3.1 Develop and implement audience-specific approaches to improve air quality literacy in the Peace River area	<ul style="list-style-type: none"> Update the Education and Outreach Work Plan to reflect changes in Goals and Strategies. Deliver at least 15 in-person or virtual learning events and assess outcomes. Prepare quarterly newsletters and at least 3 social media posts each week. 	On-going	<ul style="list-style-type: none"> Community and school learning sessions on air quality, vermicomposting and making recycled paper Booths at multiple community events Clean Air Day AQHI Station Tours for 52 students 3 newsletters in 2022 3 newsletters to date in 2023 including a special newsletter focused on air quality and wildfire information 2020-21 Annual Report and 5-year history document complete 2021-22 Annual Report complete 2022-23 Annual Report complete 2020-2023 Outreach Growth – highlights document development (See Attachment 1)



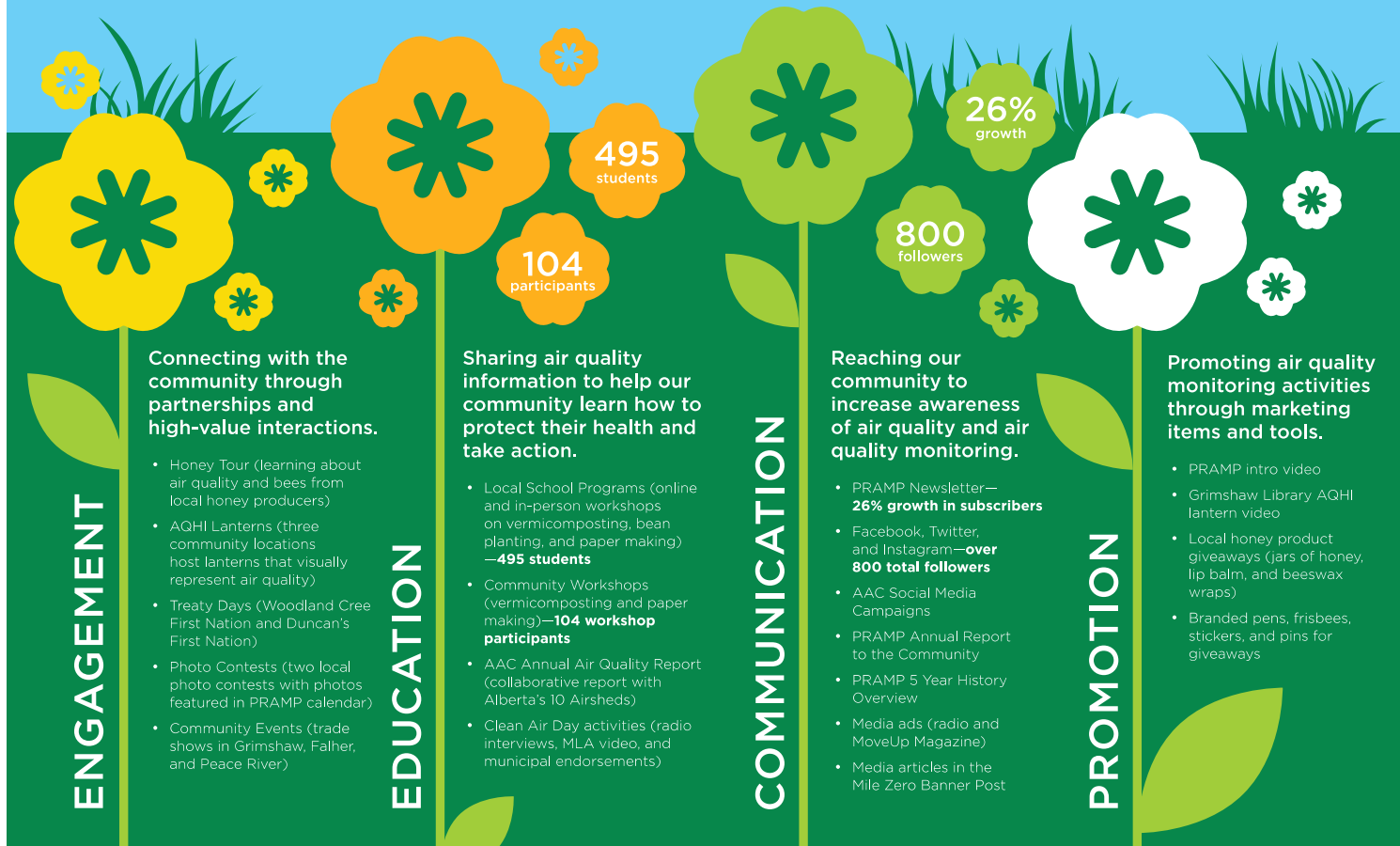
<p>3.2 Establish and maintain relationships with educators, community groups, municipalities, Indigenous communities and environmental groups in order to raise awareness about air quality, understand any air quality concerns and foster partnerships to achieve mutual</p>	<ul style="list-style-type: none"> Engage with all municipalities and Indigenous communities within PRAMP boundaries at least once each year. Reach out to all schools within PRAMP boundaries to explore opportunities for learning events and partnerships. Host or participate in at least 3 community events each year. 	<p>On-going</p>	<ul style="list-style-type: none"> Thank you letter and PRAMP calendar, Annual Report and 5-year history document sent to approx. 40 stakeholders Contact with all schools Presentations to municipalities: <ul style="list-style-type: none"> Northern Sunrise County (April 2022 and June 2023) Town of Grimshaw (April 2022 and June 2023) MD of Peace (April 2022) MD of Smoky River (June 2022 and June 2023) Town of Peace River (June 2023) AGM and open house in September 2022 (Grimshaw) Participation at: <ul style="list-style-type: none"> SARDA Trade Show Falher (Mar 2023) Teachers' Convention Grande Prairie (Mar 2023) Peace River Spring Trade Show (May 2023) Grimshaw Trade Show (May 2023)
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			
Strategies	Actions	Timing	Update 30Aug2023
<p>4.1 Develop a consolidated Operating Plan that includes Oil Sands</p>	<ul style="list-style-type: none"> Share Operating Plan with the Board. 	<p>On-going</p>	<ul style="list-style-type: none"> Operating Plan updated and reviewed at Dec 2021 Board meeting



<p>Monitoring requirements, any other monitoring, outreach and governance initiatives</p>	<ul style="list-style-type: none"> Track progress of the plan at Board meetings. 		<ul style="list-style-type: none"> Operating Plan updated and reviewed at June 2022 Board meeting Operating Plan updated and reviewed at February 2023 Board meeting Operating Plan updated and reviewed at September 2023 Board meeting
<p>4.2 Engage with and support the Alberta Airsheds Council (AAC) and Clean Air Strategic Alliance (CASA) to leverage shared communication resources, promote air monitoring excellence and advance the effectiveness and efficiency of PRAMP and other Airsheds</p>	<ul style="list-style-type: none"> Support Executive Director taking on leadership roles for Alberta Airsheds Council (AAC). Participate in AAC Board, Partner, Technical Committee and Communications Committee meetings. 	<p>On-going</p>	<ul style="list-style-type: none"> Multiple AAC Board and Partner meetings AAC Annual Data Review complete for 2021 and 2022 Represented AAC at quarterly meetings with the AER's Multi-stakeholder Engagement Advisory Committee Coordinated the preparation of a grant application from AAC to EPA in support of a province-wide Innovative Air Education Program (IAEP); serve as AAC Project Lead for the IAEP Participate on AAC Conference Planning, Technical and Communications Committees
<p>4.3 NEW - Maintain relevant Strategic Plan, policies and procedures to be in compliance with contractual expectations and to establish effective governance</p>	<ul style="list-style-type: none"> Conduct Board review of PRAMP Policies at least once every 2 years Create new policies as needs arise 	<p>On-going</p>	<ul style="list-style-type: none"> Two policies were updated and five new policies were approved in June 2022 Vision and Mission to be reviewed in September 2023

2019-2023 OUTREACH GROWTH FOUR-YEAR HIGHLIGHTS

Here's how PRAMP is raising awareness and increasing understanding about air quality and air quality monitoring in the Peace River area.



ENGAGEMENT

Connecting with the community through partnerships and high-value interactions.

- Honey Tour (learning about air quality and bees from local honey producers)
- AQHI Lanterns (three community locations host lanterns that visually represent air quality)
- Treaty Days (Woodland Cree First Nation and Duncan's First Nation)
- Photo Contests (two local photo contests with photos featured in PRAMP calendar)
- Community Events (trade shows in Grimshaw, Falher, and Peace River)

EDUCATION

Sharing air quality information to help our community learn how to protect their health and take action.

- Local School Programs (online and in-person workshops on vermicomposting, bean planting, and paper making) —**495 students**
- Community Workshops (vermicomposting and paper making)—**104 workshop participants**
- AAC Annual Air Quality Report (collaborative report with Alberta's 10 Airsheds)
- Clean Air Day activities (radio interviews, MLA video, and municipal endorsements)

COMMUNICATION

Reaching our community to increase awareness of air quality and air quality monitoring.

- PRAMP Newsletter—**26% growth in subscribers**
- Facebook, Twitter, and Instagram—**over 800 total followers**
- AAC Social Media Campaigns
- PRAMP Annual Report to the Community
- PRAMP 5 Year History Overview
- Media ads (radio and MoveUp Magazine)
- Media articles in the Mile Zero Banner Post

PROMOTION

Promoting air quality monitoring activities through marketing items and tools.

- PRAMP intro video
- Grimshaw Library AQHI lantern video
- Local honey product giveaways (jars of honey, lip balm, and beeswax wraps)
- Branded pens, frisbees, stickers, and pins for giveaways