

# Presentation to Strathcona County Council

*June 21, 2022*

**Nadine Blaney**  
Executive Director  
Fort Air Partnership

**Gary Redmond**  
Executive Director  
Alberta Capital Airshed

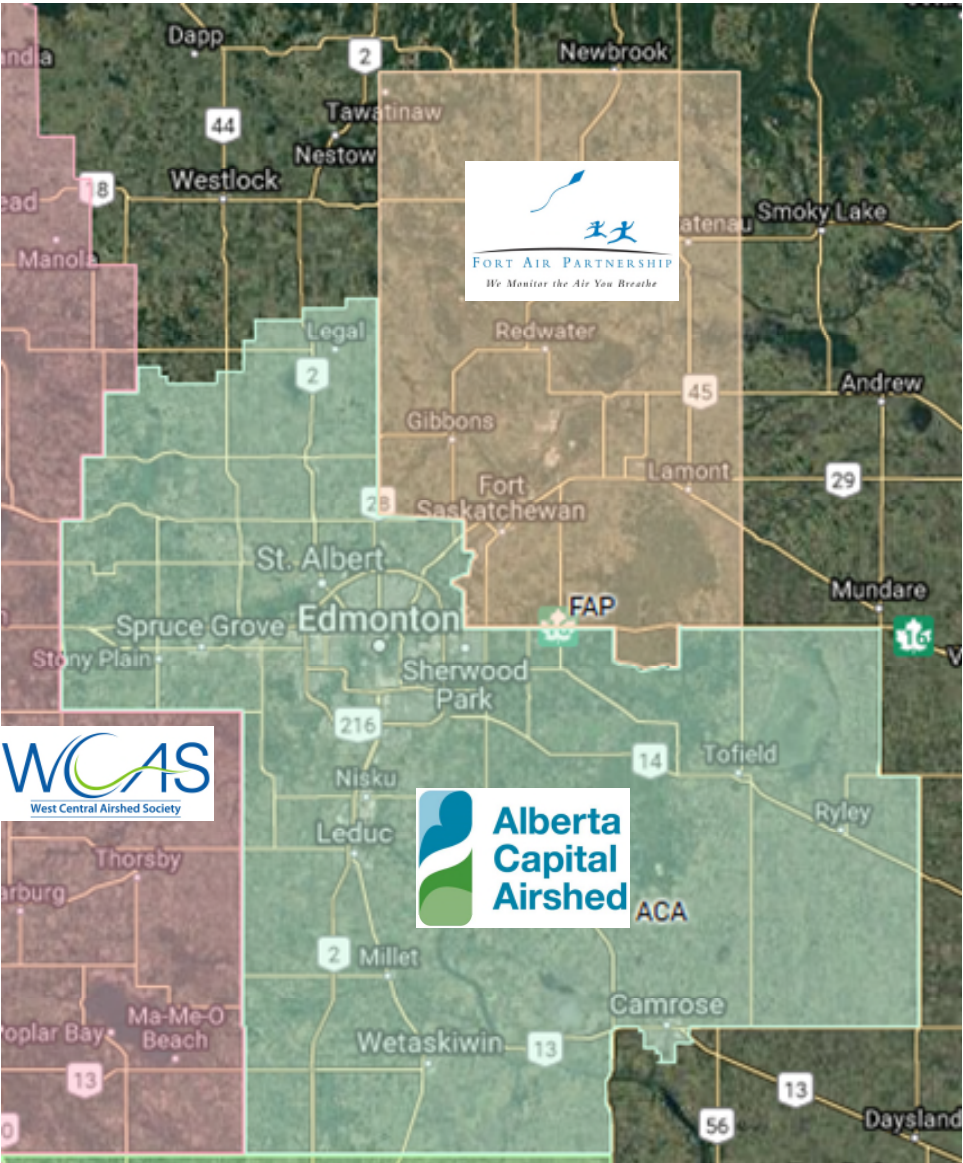
# Alberta Airshed model

- Place-based = local oversight over air quality monitoring and reporting.
- Collaborative, multi-stakeholder engagement and consensus-based decision-making.
- Highly skilled and experienced oversight of monitoring activities.
- On-going education and engagement of the community.
- Responsive to local public, government and industry needs.
- Sustainable, committed funding.

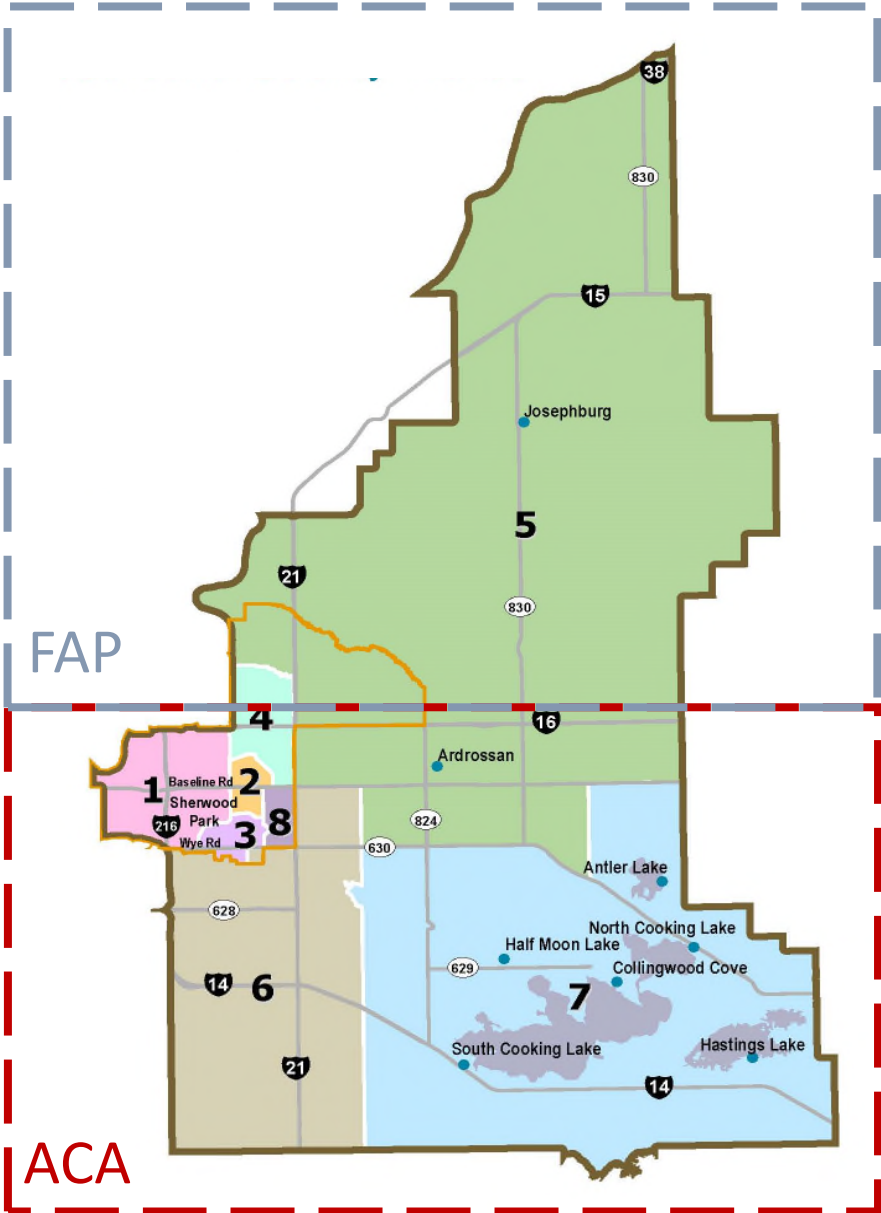
[What is an Airshed \(video\)](#)



# Airsheds in the Capital Region



# Strathcona County





# Air Monitoring Sites

## Continuous Monitoring

- Measure 19 substances and weather conditions
- Operate 24 hours a day, 7 days a week
- Provide real time data
- Report exceedances
- Provide data for Air Quality Health Index



## Passive Monitoring

- Measure the monthly average of up to 3 parameters
- Qualitative indicators to determine trends and future monitoring

## Sensor Monitoring

- Measures particulate matter and/gasses
- Operate 24 hours a day, 7 days a week
- Provides real time data
- Low cost and easy to move around



# Air Monitoring Data

## Air Quality Health Index

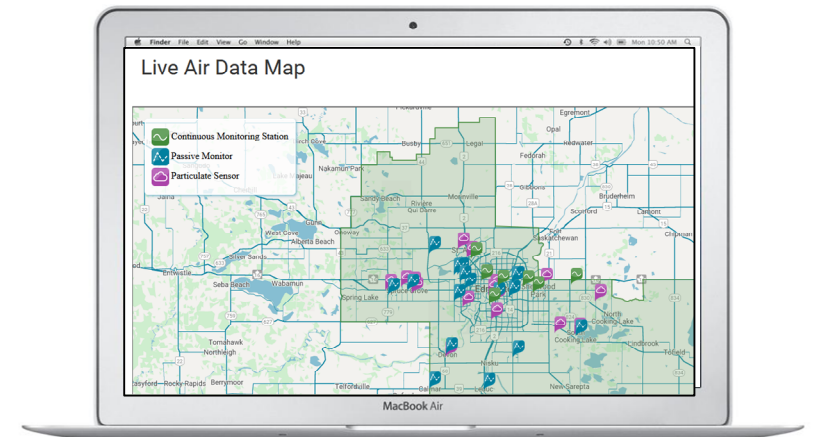


fortair.org



Health Risk	Air Quality Health Index	Health Messages	
		At Risk Population*	General Population
Low	1 - 3	<b>Enjoy</b> your usual outdoor activities.	<b>Ideal</b> air quality for outdoor activities.
Moderate	4 - 6	<b>Consider reducing</b> or rescheduling strenuous activities outdoors if you are experiencing symptoms.	<b>No need to modify</b> your usual outdoor activities unless you experience symptoms such as coughing and throat irritation.
High	7 - 10	<b>Reduce</b> or reschedule strenuous activities outdoors. Children and the elderly should also take it easy.	<b>Consider reducing</b> or rescheduling strenuous activities outdoors if you experience symptoms such as coughing and throat irritation.
Very High	Above 10	<b>Avoid</b> strenuous activities outdoors. Children and the elderly should also avoid outdoor physical exertion.	<b>Reduce</b> or reschedule strenuous activities outdoors, especially if you experience symptoms such as coughing and throat irritation.

capitalairshed.ca







# Education and Outreach

## Fort Air Partnership

- Quarterly and Annual Air Quality Summary Reports
- Special Project Reports
- FAP works with Inside Education on Grade 5 programs
- Annual Photo Contest
- Life in the Heartland



## Congratulations to our Fresh Air Experience Campaign Contest Winners

Our *Fresh Air Experience* campaign encouraging Airshed residents to get out and enjoy local air quality ended May 31. Congratulations to our contest winners Whitney Nerbass, Kylen Bubel and Linsey DeMontigny! Whitney's photo (first photo) with her and her family in a local park was selected for the Week 1 prize. Kylen's photo of her daughters biking (centre) won the Week 2 prize. Linsey's photo with her children (last photo) biking in Fort Saskatchewan earned our grand prize.





# Education and Outreach

## Alberta Capital Airshed

- ACA has developed teaching resources for:
  - Grade 7 (Science - Interactions and Ecosystems)
  - Grade 9 (Science - Environmental Chemistry)
  - Grade 12 (Science 30 - Chemistry and the Environment)
- Building out small sensors monitoring with community hosts
- ACA hosts a monthly webinar series – visit website to register
- E-bulletins/ newsletters, Air Quality Summary Reports, Annual Reports, etc.
- Social media – Twitter, Facebook, Instagram, LinkedIn



### Speakers



**David Dodge**  
Green Energy Futures



**Andrew Read**  
City of Edmonton



**Gary Redmond**  
West Central Airshed Society & Alberta Capital Airshed

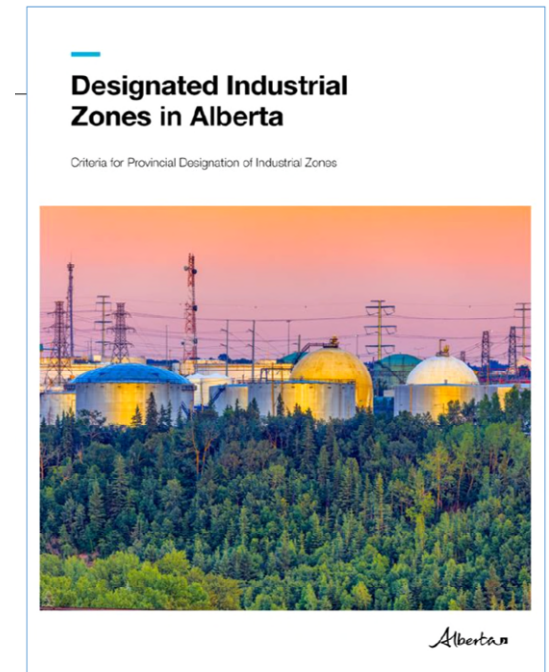
# Air Quality Management

## Capital Region Oversight Advisory Committee

- Fort Air Partnership, Alberta Capital Airshed and West Central Airshed included in the North Saskatchewan Region.
- Involved in the Capital Region Oversight Advisory Committee led by Alberta Environment and Parks.
- This committee reports against Canadian Ambient Air Quality Standards using data from monitoring stations in the three Airsheds.
- The Airsheds also support initiatives under the Particulate Matter Response Plan.

## Designated Industrial Zone

- To create a unique regulatory framework that provides environmental standards and certain and efficient approval processes that are best in class relative to competing international districts.
- FAP actively participates in the DIZ Air Working Group. The focus of this group is “defining environmental objectives for air quality, setting regional standards for ambient condition, identifying data gaps, and enabling shared knowledge.”
- FAP is also developing a long-term monitoring plan, assessing how the current network may need to be expanded or revised to accommodate new development over the next several years.





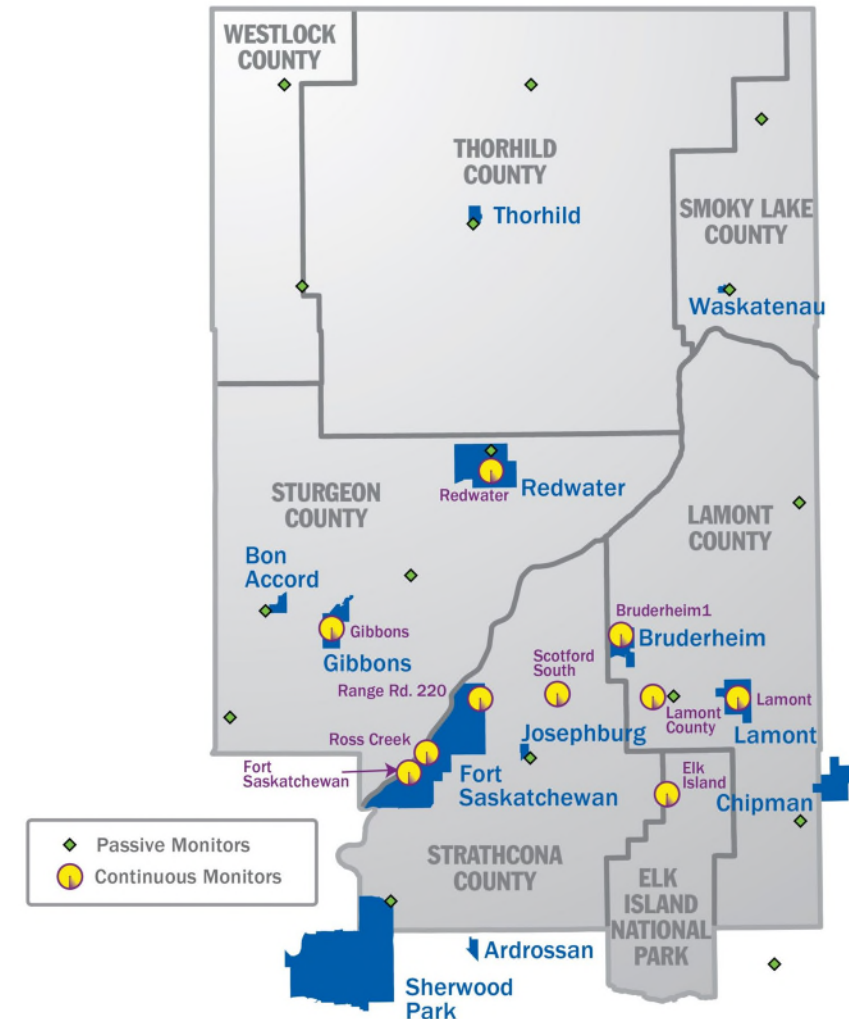
# FAP Network

**Boundary:** 4500 km<sup>2</sup>

## Monitoring Sites:

- 9 fixed continuous stations
- 1 portable station
- 16 passive sites
- 6 Purple Air Sensors

**AIR MONITORING NETWORK**  
AUGUST 2021



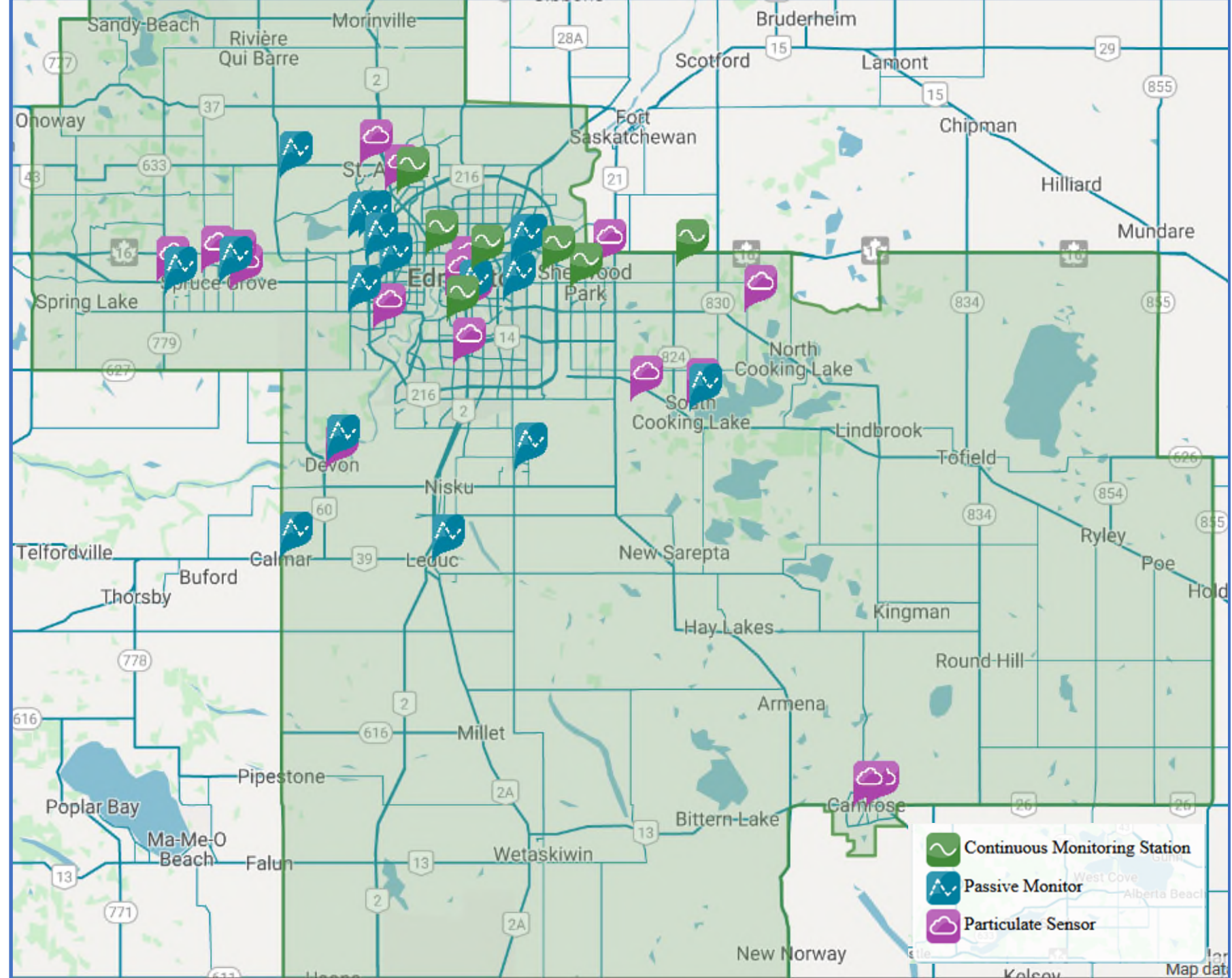
# ACA Network

**Boundary:** 9800 km<sup>2</sup>

## Monitoring Sites:

- 5 continuous stations\*
- 1 portable station
- 20 passive sites
- 32 sensor sites

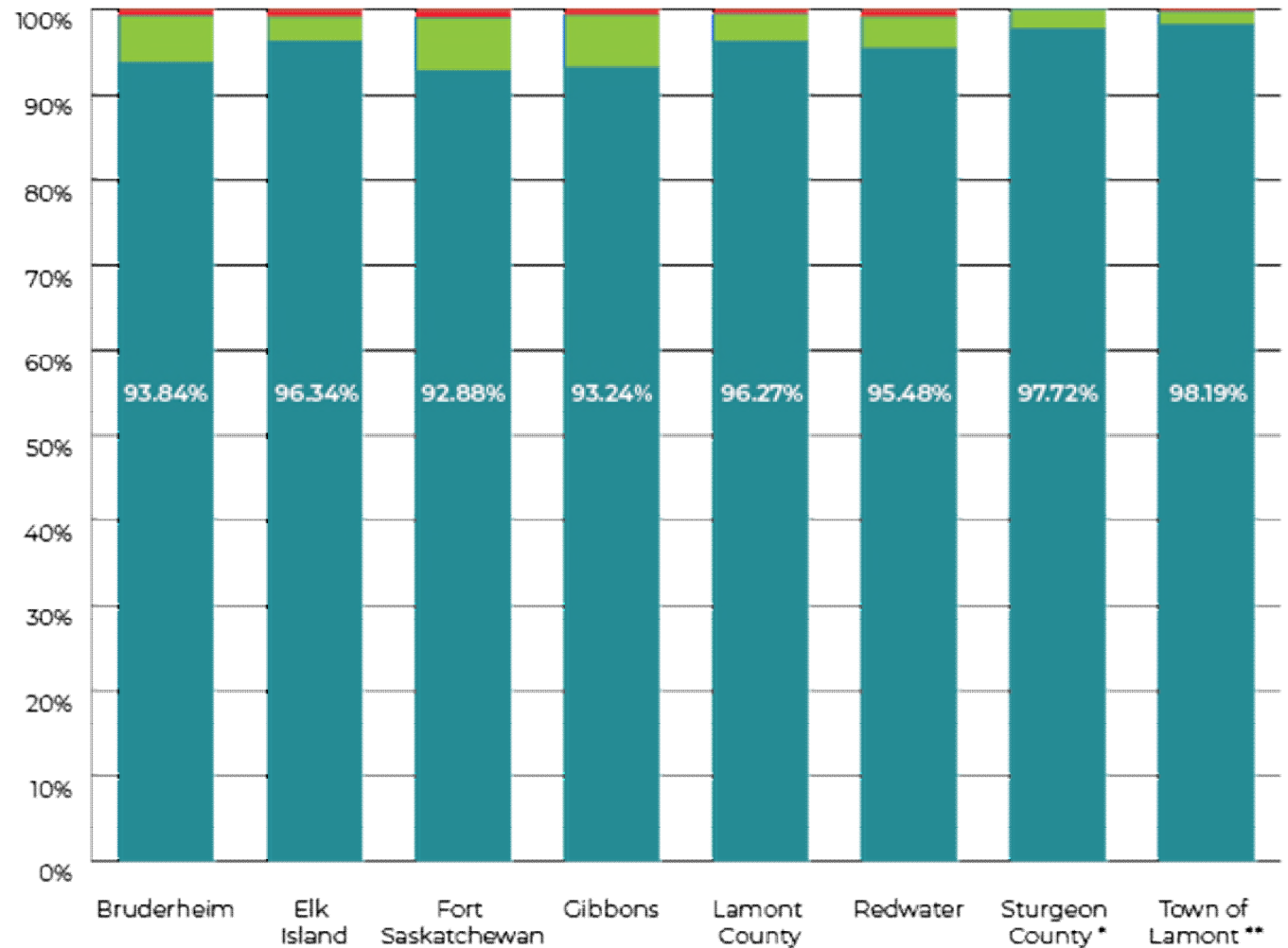
*\* Not including stations in Refinery Row area, which are industry operated stations*





## 2021 Fort Air Partnership AQHI results

2021 Fort Air Partnership AQHI results



\*The Keith Purves Portable station operated in Sturgeon County from January 1 to March 31, 2021.

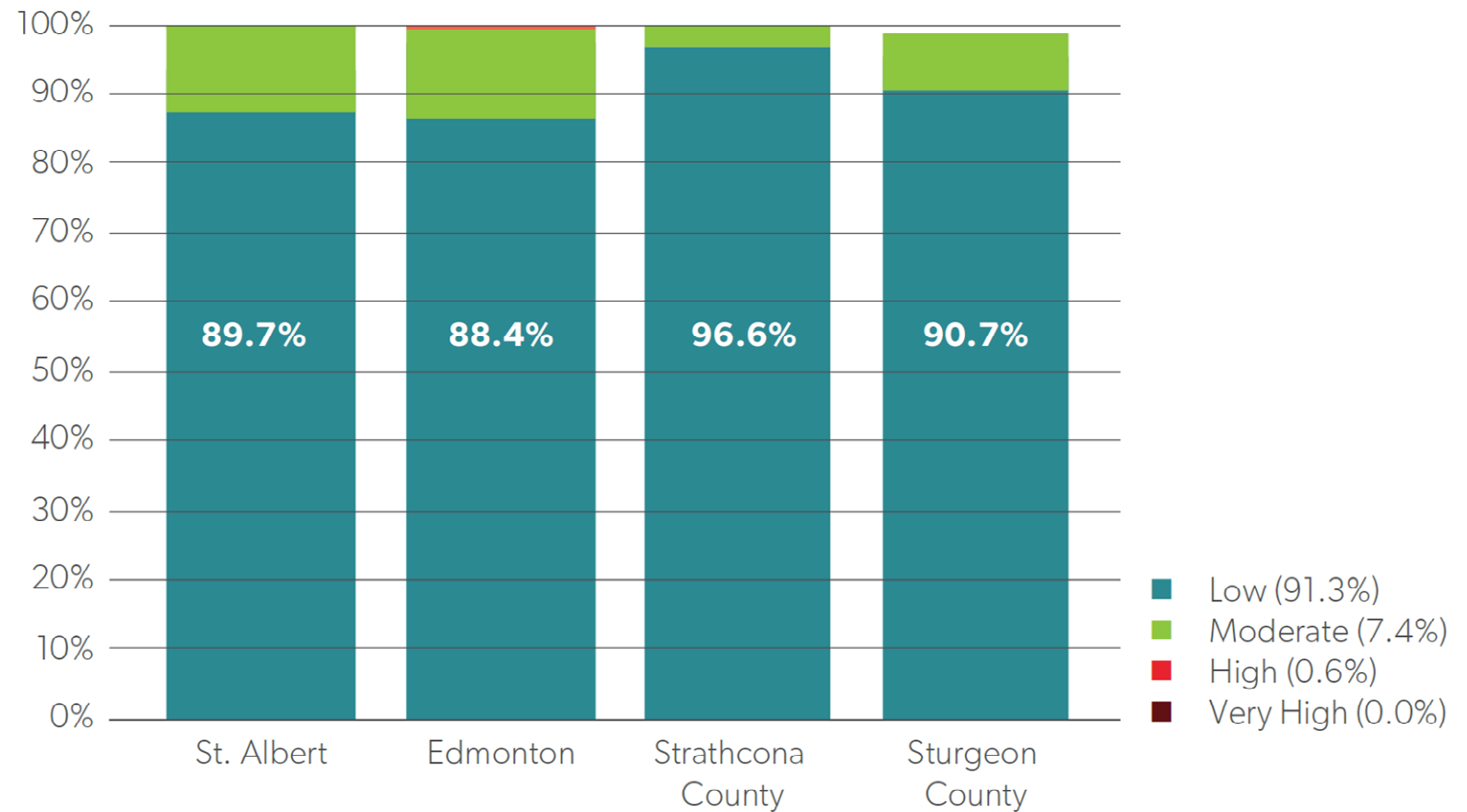
\*\*The Keith Purves Portable reported AQHI in the Town of Lamont from August 20 to December 31, 2021

# 2021 ACA AQHI results

## AQHI RATINGS 2021

Four of ACA's continuous monitoring stations calculate both current and forecasted hourly AQHI values in the Capital region.

### ACA AQHI 2021 Results





## Additional Information:

At **fortair.org**:

- Access air quality monitoring news and information
- Sign up for FAP's e-bulletin
- Download the AQHI app
- Follow us on Facebook and Instagram



**Join Our  
Mailing  
List!**

At **capitalairshed.ca**:

- Access air quality monitoring data and information
- Sign up for ACA's e-newsletter
- Download the AQHI app
- Follow us on Twitter - *@yegairshed, Facebook, Instagram, etc.*





# Thank you!

**Nadine Blaney**  
Executive Director  
Fort Air Partnership  
[nadine.blaney@fortairmail.org](mailto:nadine.blaney@fortairmail.org)  
780.289.6631

**Gary Redmond**  
Executive Director  
Alberta Capital Airshed  
[gredmond@capitalairshed.ca](mailto:gredmond@capitalairshed.ca)  
587.520.7935