



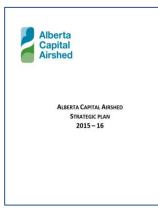
Presentation Outline

- Who we are
- What we do
 - Monitoring
 - Education & Outreach
 - Management of Air Quality Issues
- New monitoring needs
- Membership
- Questions



Who We Are

- Multi-stakeholder, not-for-profit regional organization
- Funded by Alberta Government and our members
- Three roles of an Airshed
 - 1. Monitor and share air quality data
 - 2. Provide education and outreach
 - 3. Develop air quality management plans







ACA Members

<u>Industry</u>

- Strathcona Industrial Association
 - Air Products
 - AltaSteel
 - Capital Power
 - Celanese
 - Enbridge
 - EPCOR Gold Bar Wastewater Treatment Plant
 - Imperial Oil
 - Keyera Alberta EnviroFuels
 - Kinder Morgan
 - Owens Corning
 - Rio Tinto Alcan
 - Suncor

- Lehigh Cement
- Momentive Specialty Chemicals
- ATCO Energy Solutions





Who We Are

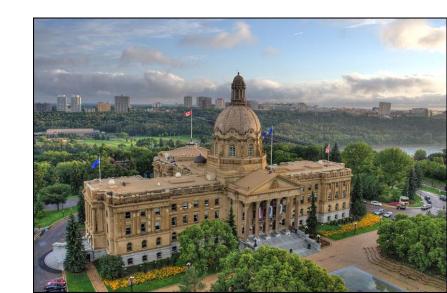
ACA Members

Government

- Alberta Environment and Parks
- Alberta Health Services
- City of Edmonton
- City of St. Albert
- City of Leduc
- Strathcona County
- City of Spruce Grove

Pending members:

- Sturgeon County
- Town of Beaumont
- Town of Calmar
- Town of Thorsby
- Town of Stony Plain





ACA Members

Non-Governmental Organizations

- Alberta Lung Association
- ECO-AIR
- MacEwan University
- Northern Alberta Institute of Technology
- University of Alberta
- Pembina Institute
- Inside Education





Who We Are

Board (2016/17)

Government (4) – Strathcona County, City of Edm, AB Env & Parks, AB Health Serv NGO (4) – Pembina Institute, Eco Air, NAIT, Inside Education Industry (3) – Lehigh Cement, SIA (Capital Power and Rio Tinto Alcan)

Public (1)

Communications

- Strategies, Media

Outreach

- Air Ambassadors

Technical Working Group

- AQ monitoring

Issues Management

AQ management

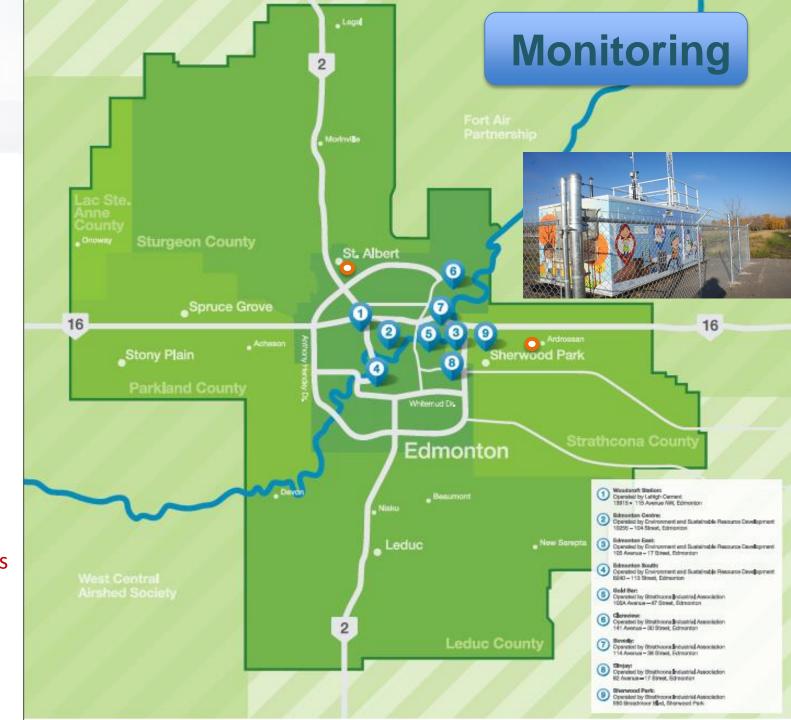






Continuous Ambient Air Monitoring Stations

- In place for > 10 years
- New stations in 2015 & 2016





Education



www.capitalairshed.ca

- Website
 - Live data of all stations
 - AQHI
 - AQ Plans
 - How to get involved
 - Library of information (including videos)

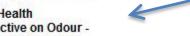
Presentation Videos



A Collaborative Process for Odour Mgmt - Celeste Dempster at the Odour Managemen...



Public Health
Perspective on Odour Ludmilla Rodriguez at
the Odour Management











School Presentations

- Grade 5 Weather
- Clean Air
 Responsible Schools
 (CARS) citizen
 science AirBeams





Air Quality Management

Fine Particulate Matter Response Plan

- ACA is supporting Alberta Environment & Parks in the development and implementation of the Capital Region Fine Particulate Matter Response Plan, along with municipalities and industry.
- The goal is to reduce and maintain ambient fine PM below the Canadian Ambient Air Quality Standards at all monitoring stations within the Capital Region.
- This will be done by managing emissions that contribute to the formation of fine particulate matter.
 The response plan includes actions for both government and stakeholders.





Air Quality Management

Air Quality Health Index



Measures pollutants known to affect health:

- Ozone
- Sulphur Dioxide
- Fine Particulate Matter (PM_{2.5})
- · Hydrogen Sulphide
- Nitrogen Dioxide
- · Carbon Monoxide

Air Quality Health Index

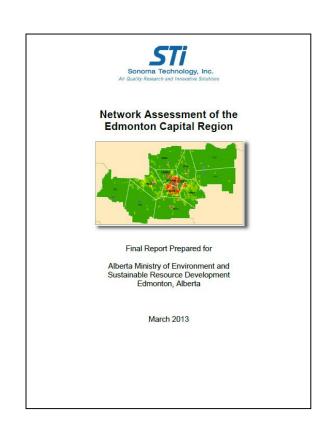
Is the air quality affecting your health? Find out www.airquality.alberta.ca



New Monitoring Needs

Gaps in AQ data identified

- Leduc area
- Spruce Grove area
- Morinville area
- Ardrossan area





Future Monitoring Priorities





Future Monitoring Priorities

Proposed passive monitoring networks





ACA Membership

Advantages of ACA Membership

- Collaborate with capital region municipalities:
 - Monitoring data
 - Addressing air quality issues
 - Support for addressing odour and other nuisance issues
 - Promoting benefits of clean air
 - Participate on Board, Technical Working Group,
 Communications and Outreach Team, Issue Management
 Committee
- Membership Fee = \$7500/year (but halved as Parkland County is not entirely within ACA area) = \$3750/year

Municipal Membership Benefits

- Perception
 - "Asthma capital of Alberta/Western Canada/the World"!
- Reality
 - What is air quality?
 - What is odour?
 - What are the influences within the Capital Region?
 - How does our landscape influence air quality?
 - How do our decisions influence air quality?
 - Can we make a difference?
- How does Strathcona County provide expertise to answer these questions?



Airshed Expertise => Municipal Capacity

- Fort Air Partnership
- Capital Region Air Quality Management Framework
 - Steering Committee to develop the Framework
 - Oversight Advisory Committee to implement the Framework
- Alberta Capital Airshed (Board member since 2012)
- Strathcona County Air Action Committee
 - TOR for Capital Region PM Response
 - Annual update to CRAQMF OAC
 - MDP



Benefits

- Science-based information
- Common messaging across gov'ts

spots-depict-how-coal-plants-contribute-to-edmonton-

pollution-in-new-environment-canada-images (Read

Albertan

- Expertise
- Resources

A short documentary about the importance of air quality and

the Alberta Capital Airshed.

About Us

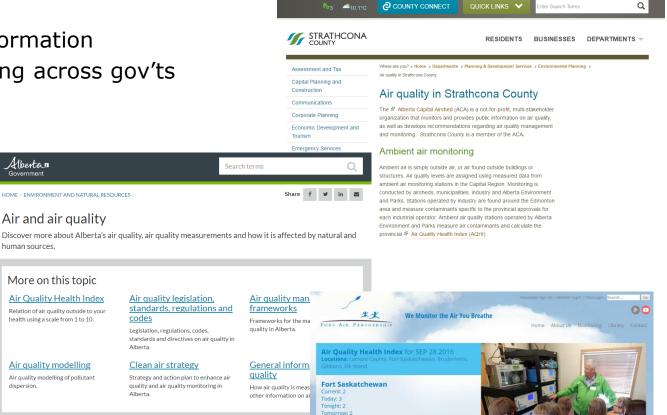
♣ Monitoring

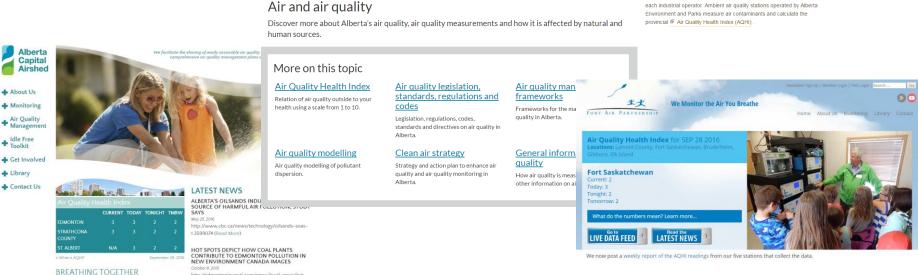
◆ Idle Free

Toolkit

+ Library

- Contact Us







Benefits

- Ardrossan AQMS (Clean Air Day 2015)
 - MOU between SIA, ACA and Strathcona County
 - Construction (2015) and annual operations (2016+)
 - Retrofit equipment at Sherwood Park AQMS







Benefits

- AQHI reported for Strathcona County!
- Resident education
- Council education
- Odour Mgmt Guide

Stick with only clean, dry wood in your backyard fire pit.







Future Benefits

- We all take responsibility!
- Expand air quality monitoring network to address gaps in region
- Influence North Saskatchewan Regional Plan
- Leverage partner funds for MAML and PAML to be deployed in Strathcona County
- Engage administrative leaders around air quality issues
- Lead municipalities in knowledge and awareness





Questions?

Gary Redmond

Executive Director
Alberta Capital Airshed

Jocelyn Thrasher-Haug Manager, Environmental Planning Strathcona County