



# North Central BC Clean Air Forum

June 5<sup>th</sup> 2018

*Understanding the Issue: From  
Policy to Implementation*

Prince George Clean Air Bylaw

# Outline

- History of Air Quality Management in PG
- Municipal Authority
- City Council and OCP Goals
- Why was the Clean Air Bylaw created?
- What does the Clean Air Bylaw regulate?
- How does the City of Prince George manage these activities?
- Other Air Quality Measures

# History of Air Quality Management at the City of Prince George

- 1995: Prince George Airshed Technical Management Committee
- 1998: Air Quality Management Plan (Phase 1)
- 2001: Clean Air Bylaw Instated
- 2006: Mayor's Task Force on Air Quality Improvement
- 2006: Air Quality Management Plan (Phase 2)
- 2011: Air Quality Management Plan (Phase 3)





# Municipal Authority

## What can the City regulate?

- Dust emissions, woodstoves, open burning, recreational fires and land use zoning.





# City Council Goal – Clean Air

Improving air quality is a key goal that has been expressed through past OCPs

Improve **air quality**

**Focus growth** more strongly

Prioritize **walking, cycling and transit** in key corridors

Encourage **better energy** systems



# Air Quality in Prince George

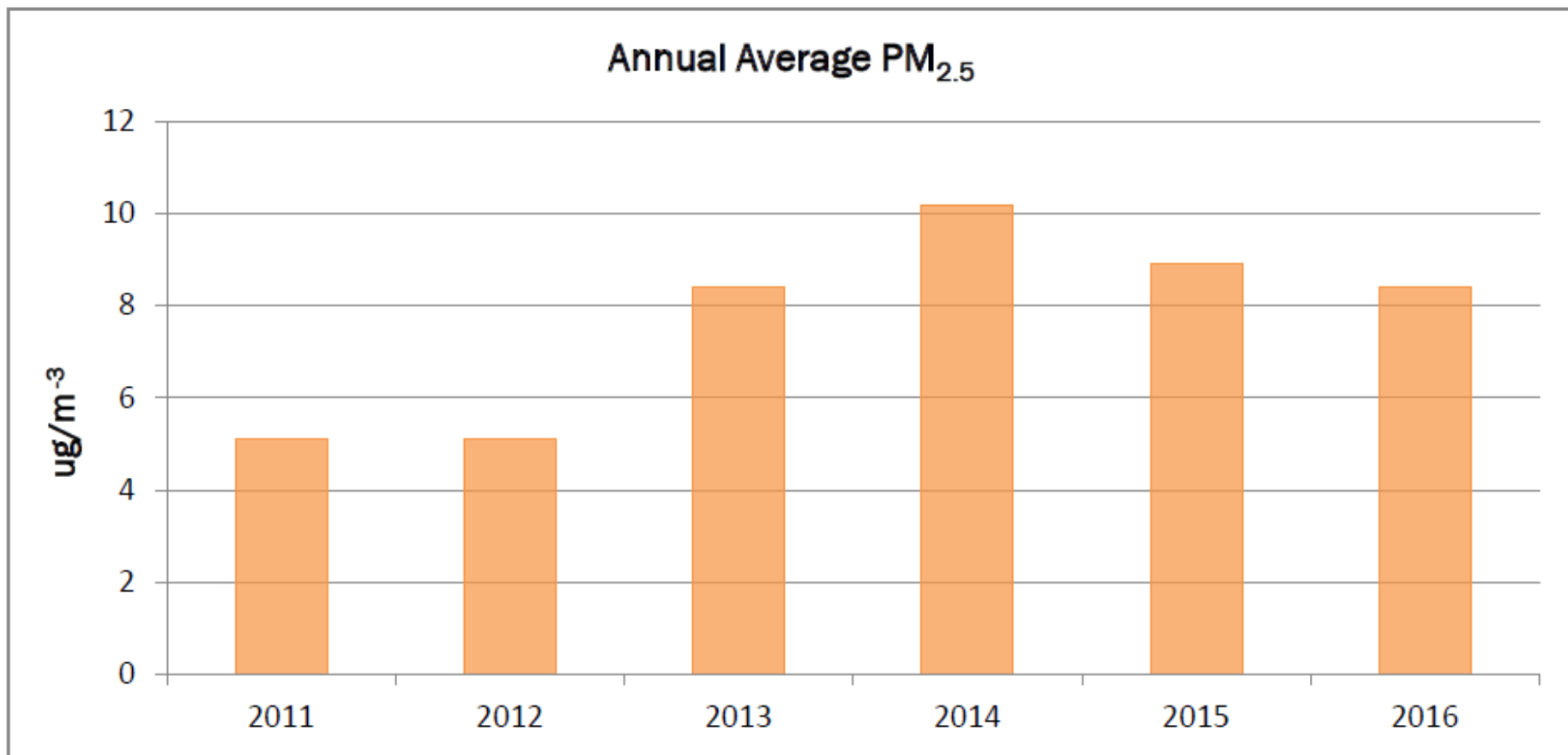


Figure 23: Annual Average of PM<sub>2.5</sub> Concentrations



# City of Prince George Clean Air

**Bylaw** 2001—Implemented first Clean Air Bylaw in BC

**Purpose:** to protect and enhance the well-being of the community and public health through air quality improvement.

## Key Components:

1. Wood Burning Appliances
2. Open Burning & Recreational Fires
3. Fugitive Dust Control



# Why was the Clean Air Bylaw created?

Phase 1 of the George Air Quality Management Plan

Phase 1 Recommendations included:

1. City ban open burning
2. City prohibit burning of wood in residential areas on air quality days
3. City regulate new wood burning appliances meet air quality standards
4. City expand use of winter abrasives to generate less fine PM
5. City do more frequent sweeping of municipal streets and provide additional dust control.



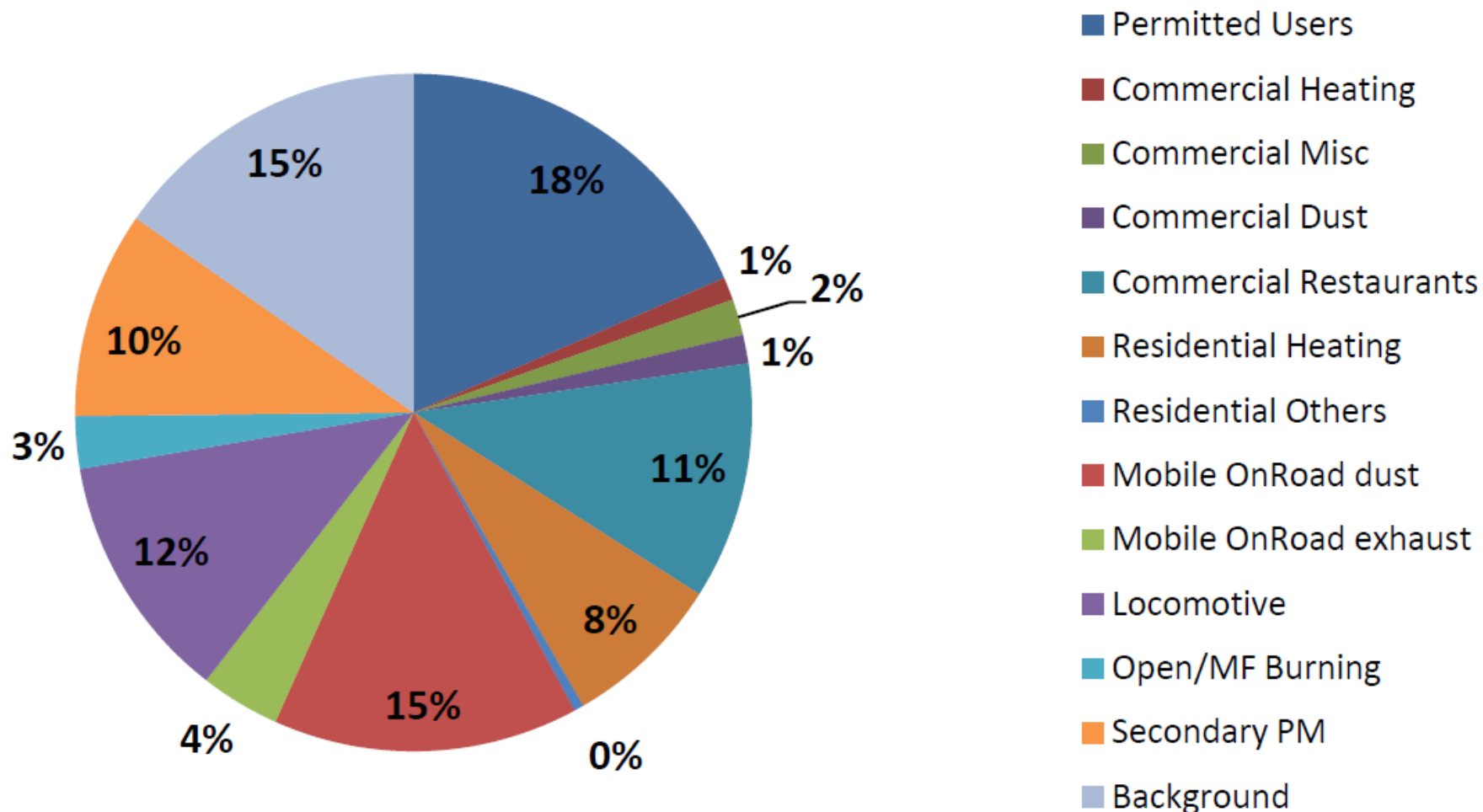
# Clean Air Bylaw No. 8266, 2010

The Clean Air Bylaw regulates a variety of wood burning space heating appliances, outdoor burning and dust control to protect and enhance the well-being of the community and public health through air quality improvement.



# PM2.5 – 8% Residential Heating

## Predicted + Background PM<sub>2.5</sub> (2003-2005) at Plaza





# Wood Burning Appliances – Part

2 The Clean Air Bylaw sets regulations on fuel types, wood burning restrictions and requirements for the installation of wood burning appliances.



# Managing Wood Burning



<http://ezt.ca/Business/Building-Development/Building-Permits>



<https://www.pgairquality.com/Programs/burn-it-clean>



<http://farbetterfarmstead.blogspot.com/2012/10/outdoor-wood-furnace.html>

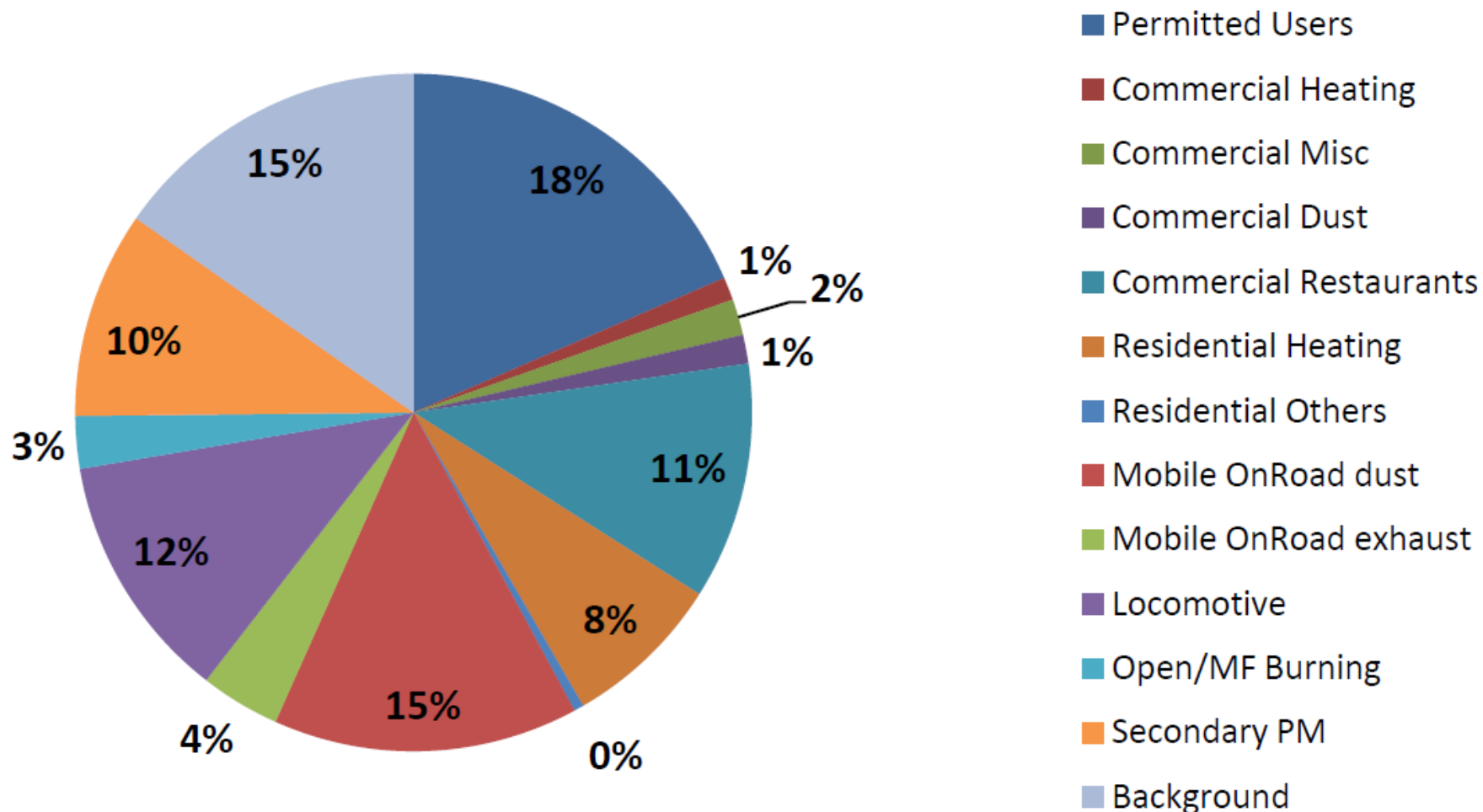


<http://www.princegeorgecitizen.com/news/local-news/air-quality-advisory-in-effect-for-prince-george-1.23171040>



# PM2.5 – 3% Open Burning

## Predicted + Background PM<sub>2.5</sub> (2003-2005) at Plaza



# Open Burning – Part 3

- The Clean Air Bylaw bans open burning within the entire City limits all year round.



# Managing Open Burning

~~Complaints~~  
73 complaints attended by Fire Services since the induction of the Bylaw.

- 2014-2016: 314 burning complaints; 13 addresses had 2 complaints, 1 address with 4 complaints and 1 address with 5 complaints.





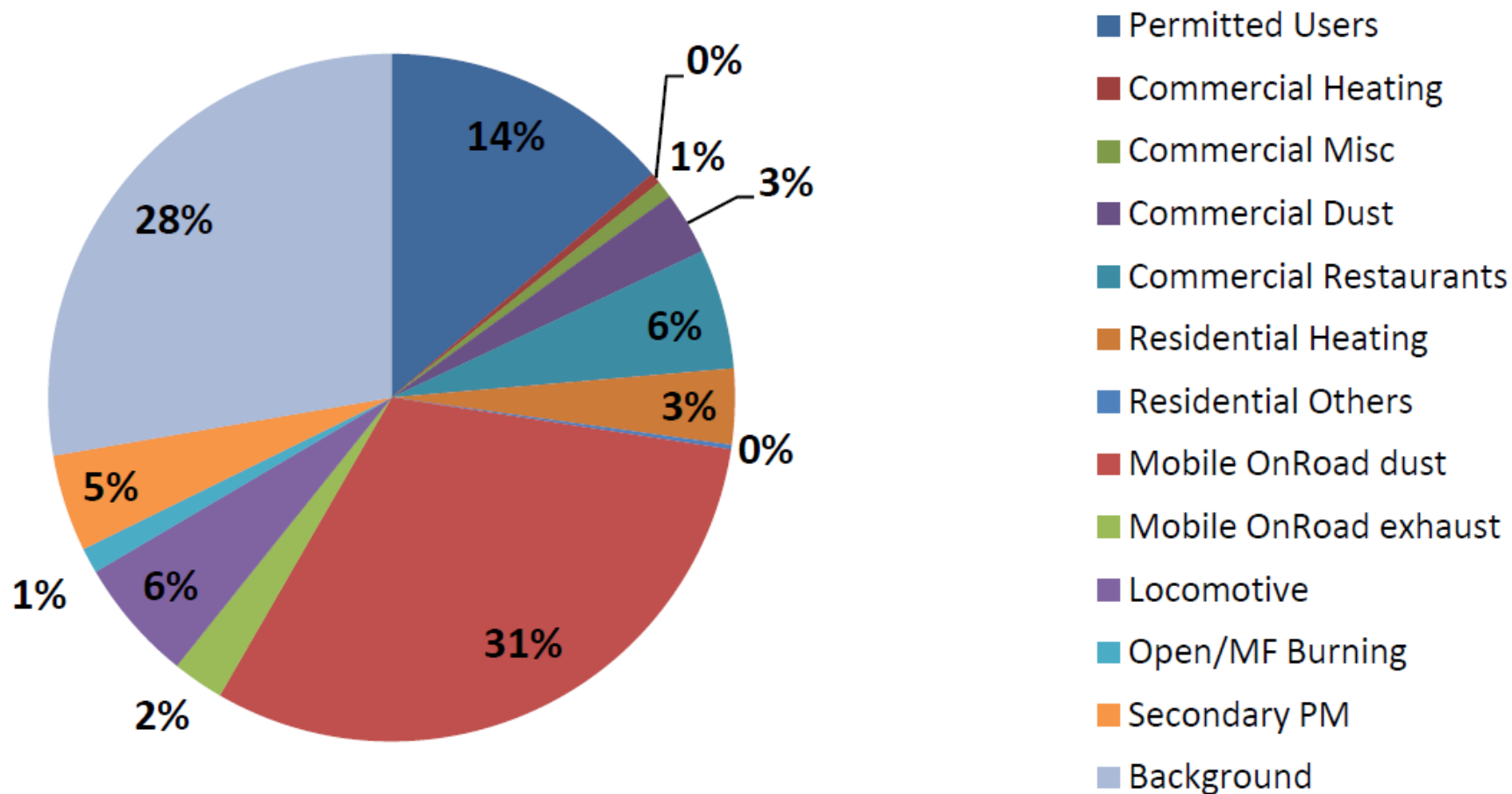
# Recreational Fires – Part 3

- Small, contained recreational fires are allowed using seasoned fire wood unless there is an air quality advisory (Section 3.2 and 3.3).



# PM10 – 31% Mobile Road Dust

## Predicted + Background PM<sub>10</sub> (2003-2005) at Plaza



# Fugitive Dust Control – Part 4

- All sweeping operations must include fugitive dust control procedures, such as dust suppressing liquids (Section 4.1), and applied prior to and during sweeping or maintenance operations (Section 4.2).





# Managing Road Dust Operationally

- “Winter crush”, the fractured product stays on the road longer.

## Snow and Ice Control:

- Anti-Icing and Pre-wetting





# Street Sweeping

- Dust suppressions with water/liquid salt
- Combination of water trucks, loader brooms, dump trucks and sweepers
- Specific sweeping patterns



# Managing Fugitive Dust - Public

- 54 Formal dust complaints
- Annual reminder letters
- Sweeping approvals
- Social Media and Radio Ads

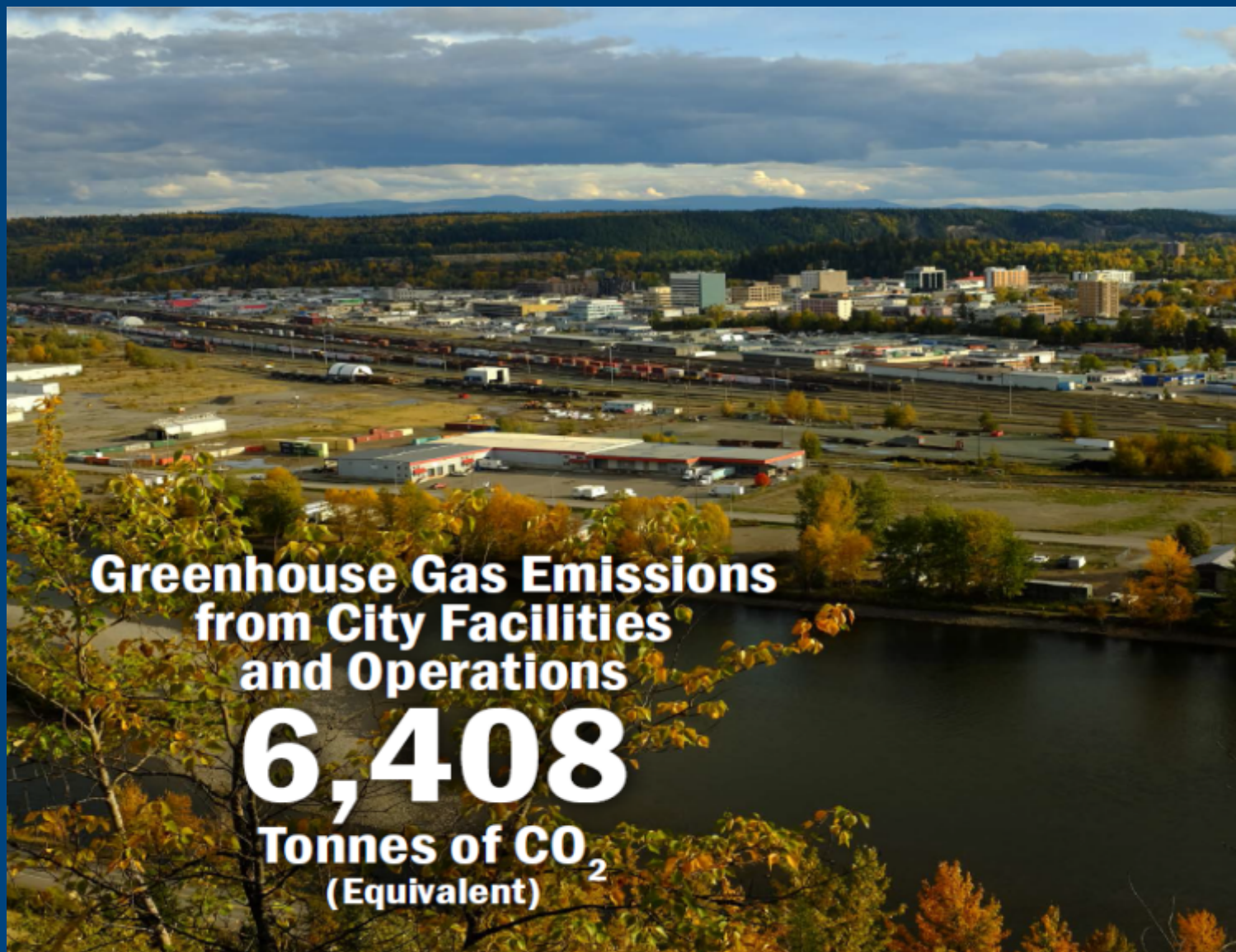




# Other City AQ Measures



# GHG Emissions





# Questions or Comments?

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