



# Community Air Quality Programs

An overview of air pollution control programs in Colorado communities with a special emphasis on Garfield county

May 15, 2008

“Smart Citizen Series”

# Presentation Topics

- Legal basis for pollution control programs
- How air pollution sources are controlled
- Regulation/permits/inspection/compliance
- Organizing for better air quality – some options for communities in Colorado and successful examples

# Legal Basis for Control Programs

- ☞ Clean Air Act
- ☞ Colorado Revised Statutes
- ☞ Colorado AQCC Regulations
- ☞ Local ordinances or resolutions

# How various sources are controlled

- ▣ Federal standards
- ▣ State standards and requirements
- ▣ Local ordinances

# General Methods of Emission Control

Type of air pollution source	Regulatory approach to establish limits on sources by Rule	Engineering approach applying control technologies or practices to meet limits for either particles or gases
<b>Stationary</b>	Federal – yes State – yes Local – yes	Process changes Fuel changes Pollution removal
<b>Mobile</b>	Federal - yes State – yes Local - yes	Fuels Combustion controls Pollution removal
<b>Area</b>	Federal – yes State – yes Local – yes	Combustion controls Pollution removal Best practices - Fire - Agriculture - Roads and construction

# Regulation/Permits/Inspection/Compliance

- AQCC Regulations 1 – 19
- Fire – Prescribed fire permits and advisories
- Oil and Gas – 85% of the point sources in Garfield county
- Mobile area sources

# Types of Emission Permits

- ✓ Construction Permits
- ✓ Operating Permits
- ✓ Asbestos Permits
- ✓ Oil and Gas condensate storage tanks\_
- ✓ Open Burning Permits
- ✓ Smoke Management\_ Permits

# Inspection Activities

- ☞ **Inspections of industrial sources:**
- ☞ **Observation of emissions testing of industrial facilities:**
- ☞ **Verification and review of various reports sent in by sources:**
- ☞ **Complaint investigation:**
- ☞ **Issuance of Open Burning Permits:**
- ☞ **Enforcement actions against violators of state regulations:**
- ☞ **Providing information to the public:**
- ☞ **Observation and verification of certification tests done on continuous emissions monitors:**
- ☞ **Final approval construction permit support work:**
- ☞ **Federal - state interaction and cooperation**

# Fire Information

- Go to:  
<http://www.cdphe.state.co.us/ap/fireinfo.html> to get detailed information on fires in Colorado and nationally and how to respond

The screenshot shows a web browser window displaying the Colorado Department of Public Health and Environment's website. The page is titled "Air Pollution Control Division Colorado Wildfire Information" and features a "Front Range Air Quality Forecast & Colorado Smoke Outlook". A sidebar on the left lists various services and programs. The main content area includes a section titled "Air Quality Where I Am? Who is most affected?" and a table of air quality data.

Air Quality Category	24hr PM2.5 (µg/m <sup>3</sup> )	1-yr PM2.5 (µg/m <sup>3</sup> )	Visibility (miles)
Good	120.0 - 200.0	12.0 - 20.0	16.1 - 24.1
Moderate	100.0 - 120.0	10.0 - 12.0	16.1 - 24.1
Sensitive Groups	100.0 - 120.0	10.0 - 12.0	16.1 - 24.1
Unhealthy	120.0 - 200.0	12.0 - 20.0	16.1 - 24.1
Very Unhealthy	120.0 - 200.0	12.0 - 20.0	16.1 - 24.1
Hazardous	120.0	12.0	16.1

# Oil and Gas Emission Control Requirements

- Stricter emission control requirements for the oil and gas industry have been in place in Colorado since 2007.
- New control requirements were established for condensate tanks statewide.
- New reporting and recordkeeping requirements were also established.

# Pollution Control Activities – Garfield County

## Oil and Gas Activity :

- 2006/7 facility inspections '06 – 28, '07 – 60 and '08 – 7 (so far)
- 2006/7 enforcement actions '06 – 12, '07 – 24 and '08 – 22 (so far)
- Evaporation ponds – currently, 7 permitted ponds (more in the pipeline)
- HB 1341 OGCC proposal --

# Current Bottom Line...

**There is an expanding regulatory framework for addressing air quality issues relating to oil and gas and other activities:**

- modeling (estimate impacts)
- monitoring (measure impacts)
- application of all the array of regulatory and engineering controls;
- Bringing more staff on at the Air Division
- and, a community voice

# Beyond Regulation – Other Options

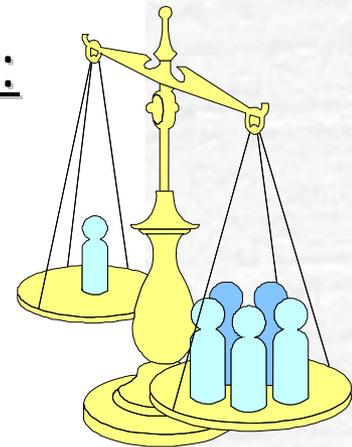
- ☛ Innovative air quality programs
- ☛ SEP money and state/EPA air grant funding
- ☛ Community involvement efforts

# What are Community Based Programs ?

- Community based programs may focus on a number of public health, ecological or aesthetic issues.
- Community based environmental programs seek to address a variety of air quality concerns that are viewed by the community as a problem.

Key features of this balanced approach include:

- The ongoing collaboration of the state, local governments and stakeholders
- Responding to community values becomes an important concern



# Colorado, Like Many Other States, Utilizes a Full Range of Pollution-Fighting Strategies

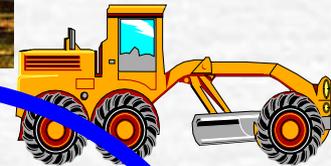
## Federal...

- New car standards
- Unleaded fuel
- Fuel specifications



## State...

- Stationary source control
- Car inspection
- Fuel programs



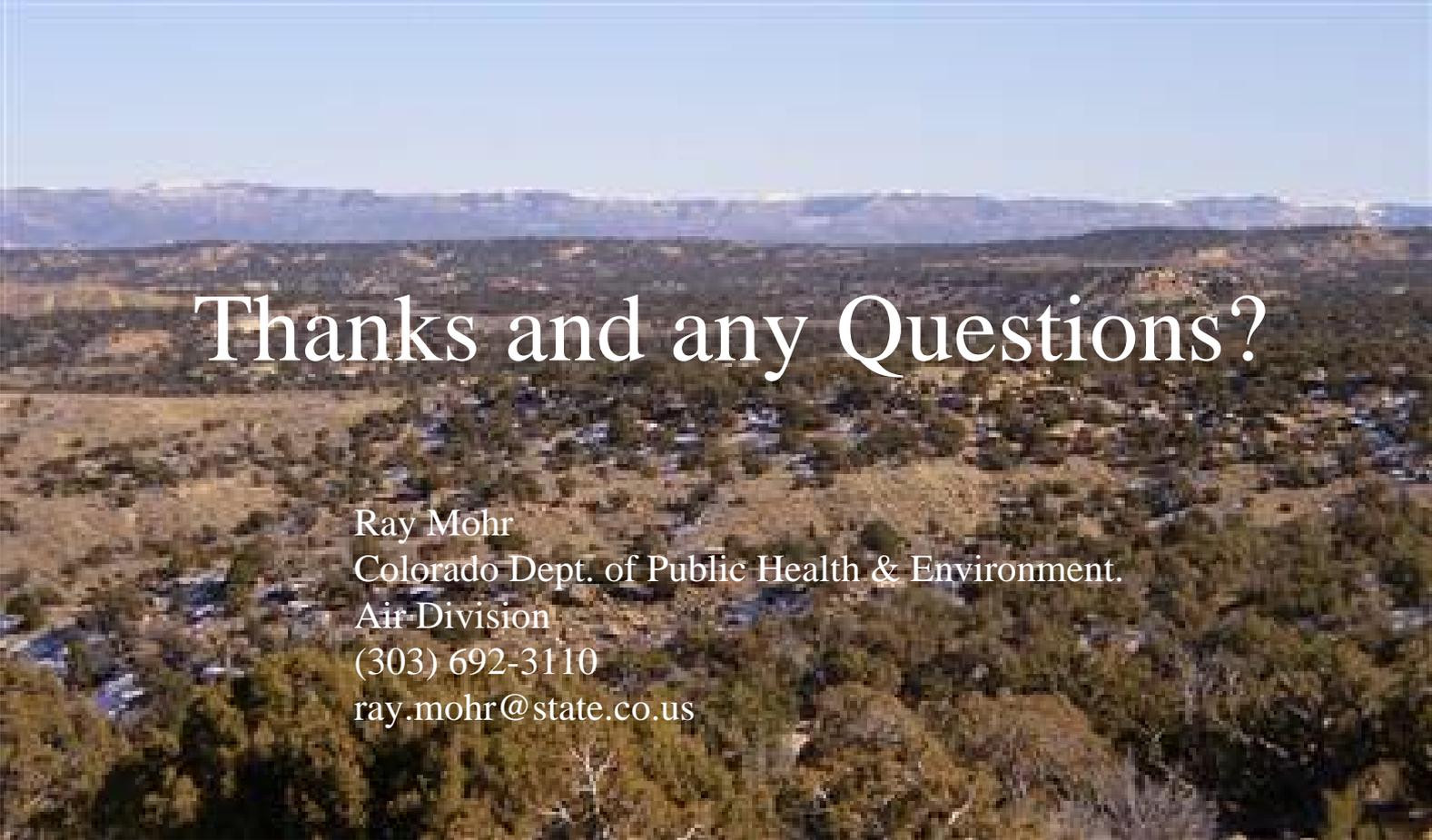
## Local...

- Dust controls
- Alternative transportation programs
- Wood burning control efforts
- and, much more



# Some Colorado Success Stories...

- Pueblo County Health Dept.
- Boulder County Health Dept.
- Tri-County Health Dept.
- Mesa County Health Dept.
- San Juan Basin Health Dept.
- Denver City and County Environmental Agency



Thanks and any Questions?

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