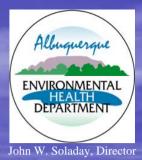


Martin J. Chávez, Mayor



### Ambient Air Quality in Bernalillo County

By Fabian Macias Air Quality Assurance Manager Air Quality Division



### Network Design

IO Ambient Air Monitoring Stations -7 Ozone - 5 Carbon Monoxide - 7 Fine Particulate (PM2.5) - 6 Coarse Particulate (PM10) – 1 Nitrogen Dioxide - 10 Met Stations



## 2011 Network Additions

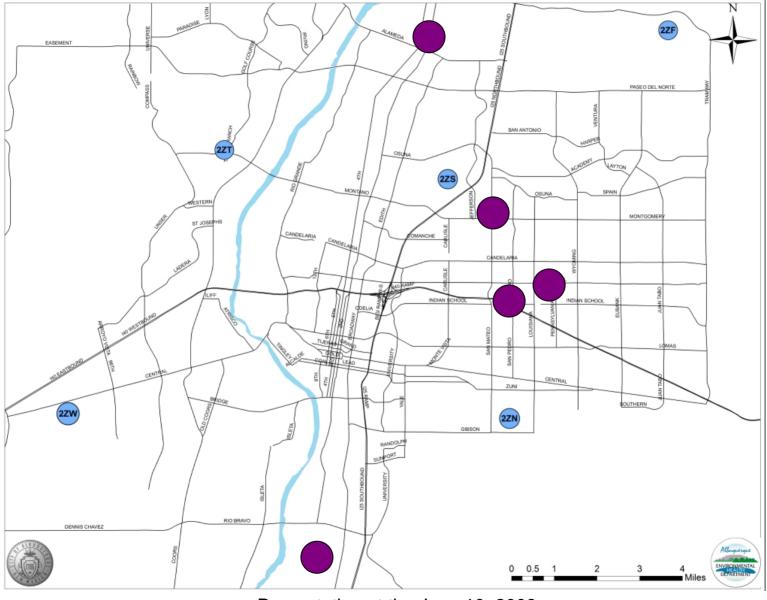
2ZM Del Norte High School

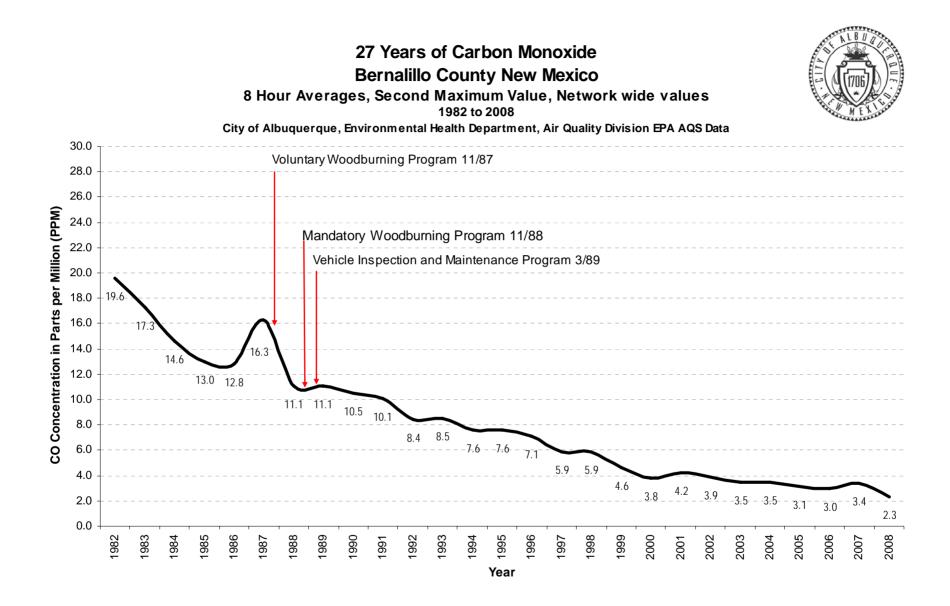
 Total Nitrogen
 High Sensitivity Carbon Monoxide
 High Sensitivity Sulfur Dioxide

 2ZN Wilson Park (anticipated under current regs)

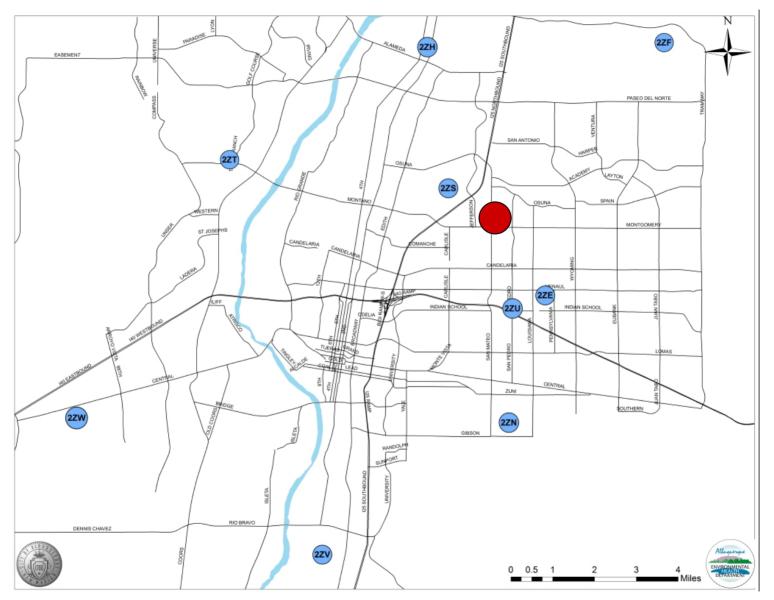
 Lead Sampling

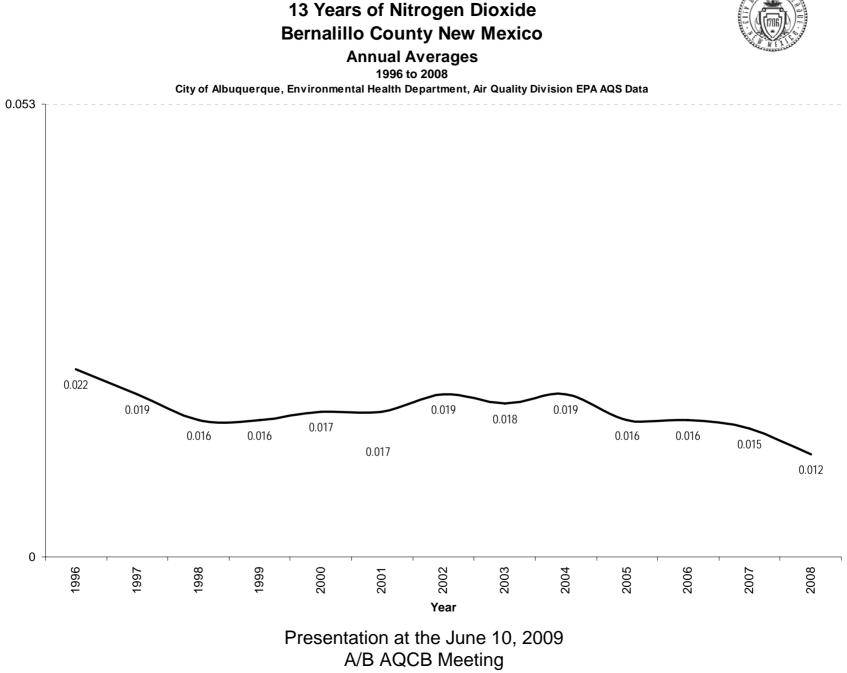
#### Carbon Monoxide Monitoring in Bernalillo County





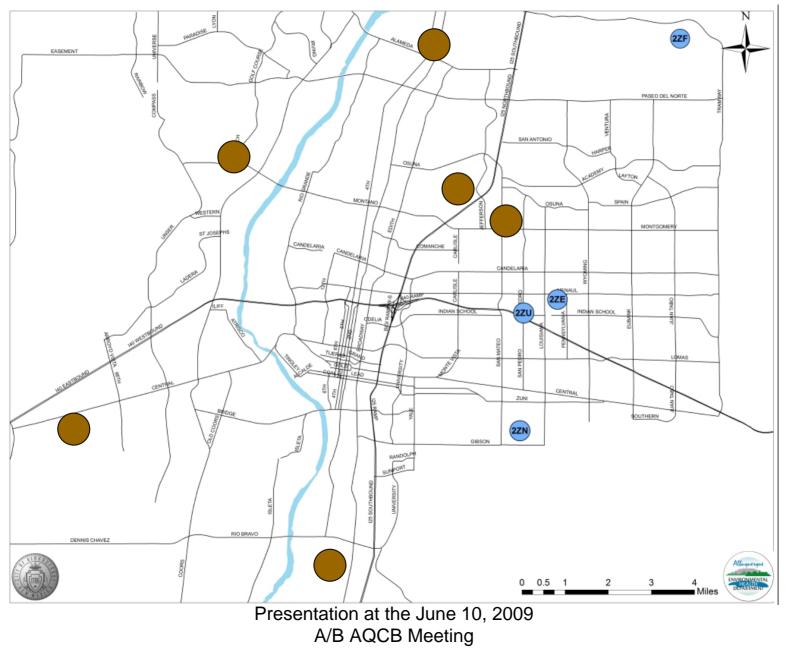
#### Nitrogen Dioxide Monitor in Bernalillo County

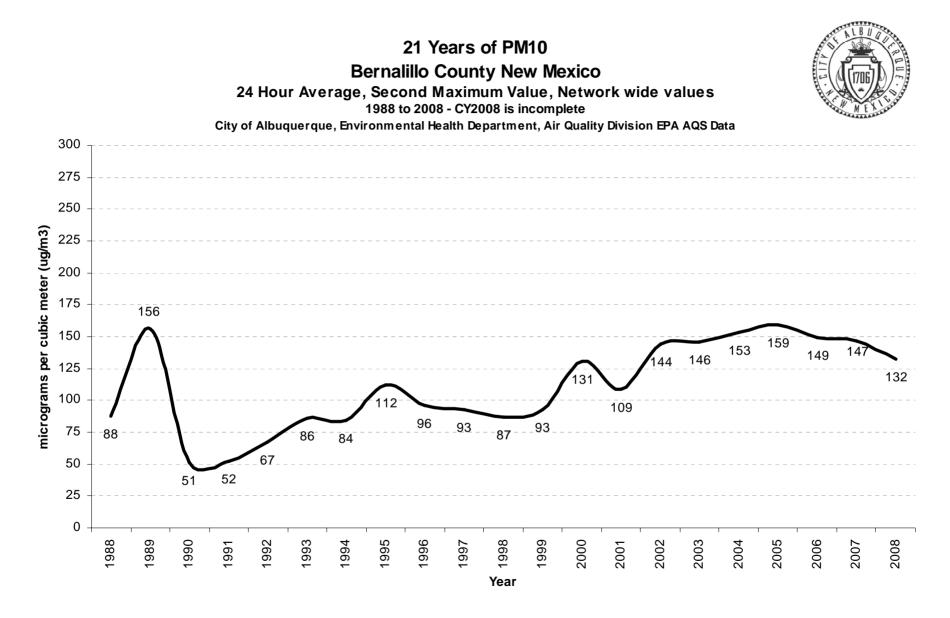




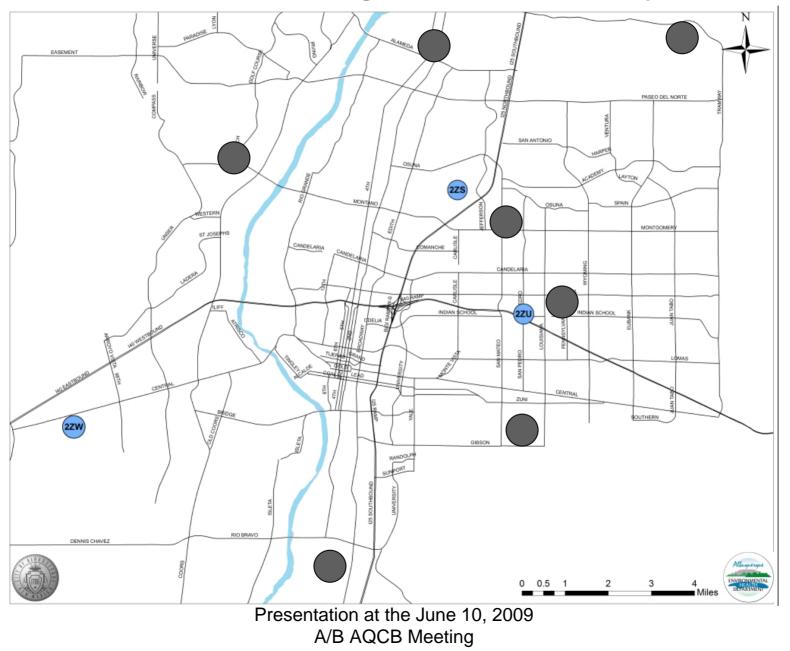
NO2 Concentration in Parts per Million (PPM)

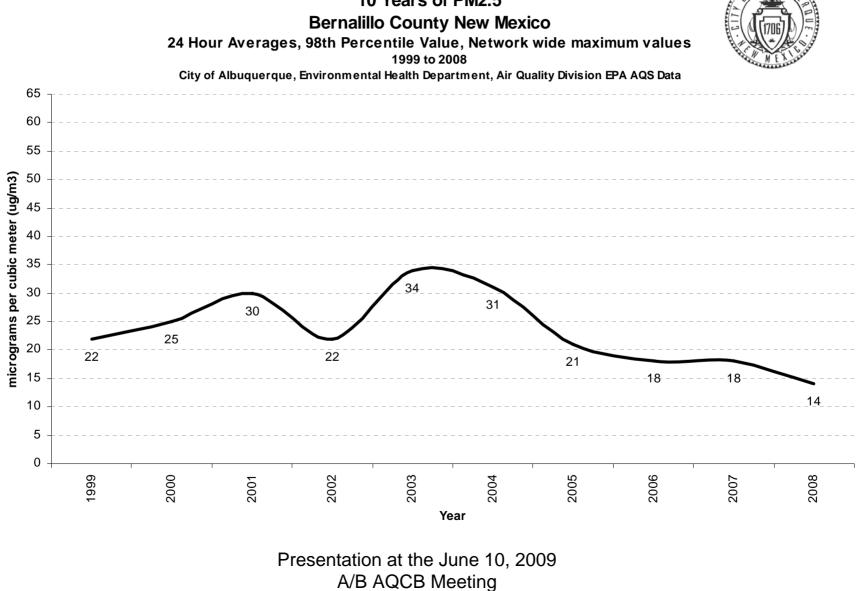
#### PM10 Monitoring in Bernalillo County





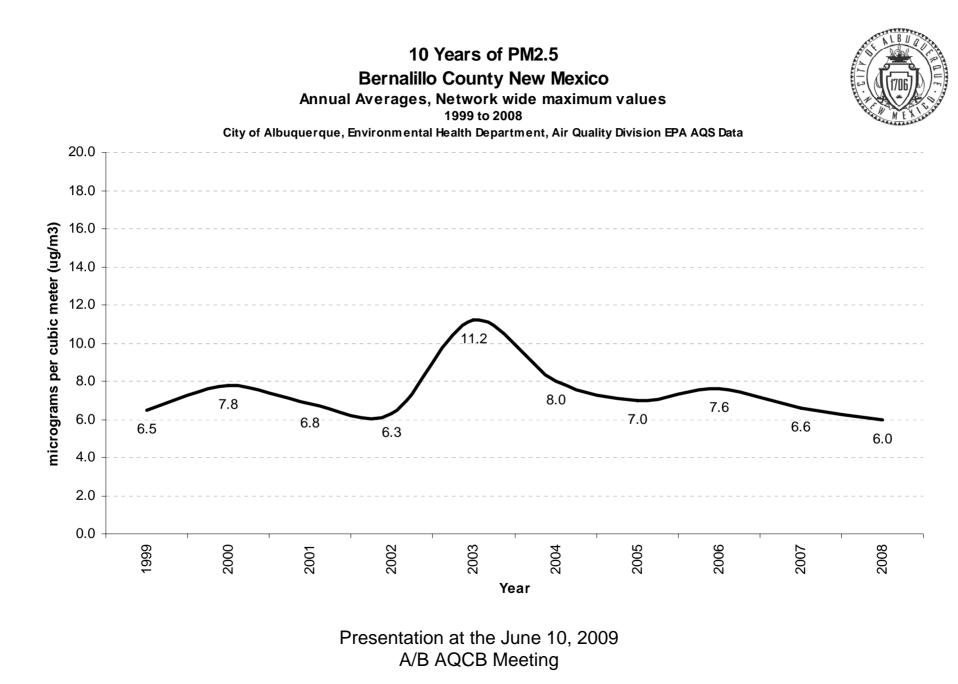
#### PM2.5 Monitoring in Bernalillo County



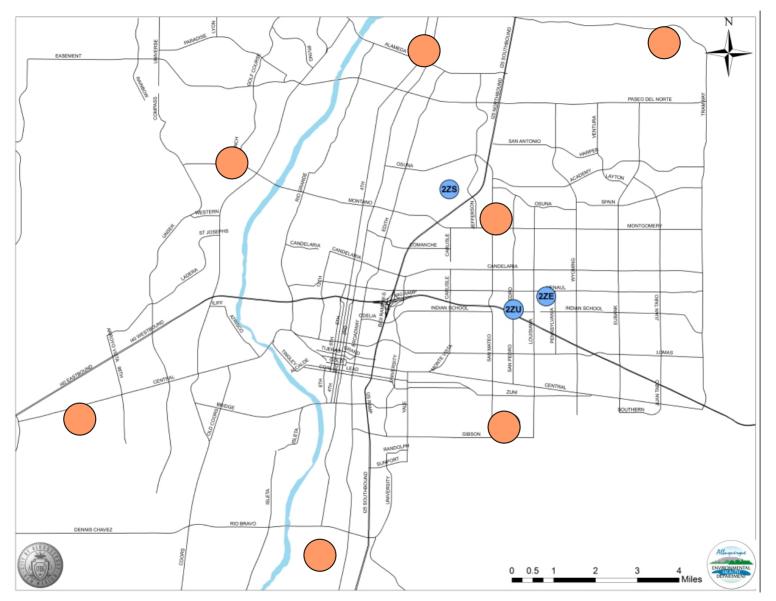


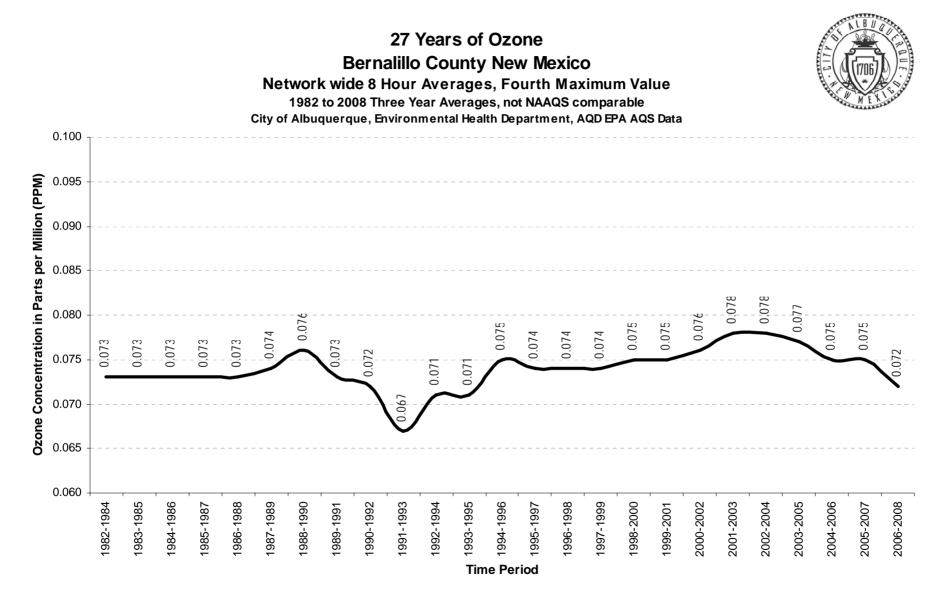
# 10 Years of PM2.5





#### **Ozone Monitors in Bernalillo County**





2ZL Westside = 0.066 ppm

Paradise Hills

2ZH North Valley = 0.070 ppm

• Los Ranchos de Albuquerque

Sandia

2ZF Far Northeast Heights = 0.063 ppm 2ZF 2006 data is incomplete

Sandia Heights

2ZT Westside Taylor Ranch = 0.070 ppm

25

2ZM Del Norte High = 0.069 ppm

2ZE Zuni Park = 0.070 ppm

For 2008 3 sites are 93% of the standard 2ZH - North Valley 2ZT - Westside Taylor Ranch 2ZE - Uptown Zuni Park

2ZU Uptown It is likely that 2ZF and 2ZW will pass the 0.070 ppm mark within the next two years.

Albuquerque, NM

Westside 2ZW

Albuquerque

Central Ave NE

2ZW does not enough data to calculate so far its in line to be our highest site ay Bivd SE

Bernalillo

2ZN Southeast Heights = 0.069 ppm

2ZV South Valley = 0.068 ppm







 Bernalillo County is at about 93% of Federal Ozone Standard at .070 ppm • 2009 Legislative Session - HBIC/HB 195 Created a New Section of the State Air Act State or Local Board SHALL Adopt a Plan to **Control Emissions from Sources of:**  Oxides of Nitrogen - Volatile Organic Compounds Presentation at the June 10, 2009 A/B AQCB Meeting

### New NM Air Act Section



 Allows the State and Local Board to be more stringent than federal rule for areas that are violating or are within 95% of a national ambient air quality standard for ozone.

 Allows for additional standards of performance for sources.
 Other specifics...





Most of the Western United States is close to or exceeding Federal Ozone Standards.
1 Ozone Non-Attainment Area in the State, Sunland Park, New Mexico.
1 Area at 100% of the Current Standard, San Juan County, New Mexico





- It is not if we go non-attainment, it is when...
  - -1) Violating the Current Standard
  - -2) Standard is Reduced to Violating
- Community needs to be aware of situation and upcoming requirements.
- Begin Ozone Mitigation Plan Development Process.

### South Valley Air Monitoring Station

- Station was relocated and sited for Ozone and Carbon Monoxide
- Added Particulate Matter (PM) monitors and other analytical equipment
- Station Area did not meet PM siting criteria
- Bernalillo County upgraded/stabilized Area in April and May 2009

 We have re-evaluated siting criteria and have recommended to EPA Region 6 that the PM data be NAAQS comparable

#### 2ZV – South Valley Station Western View – Pre-Stabilization



#### 2ZV – South Valley Station Western View – Post-Stabilization



#### 2ZV – South Valley Station Southwestern View – Pre-Stabilization





#### 2ZV – South Valley Station Southwestern View – Post-Stabilization

#### 2ZV – South Valley Station Southern View – Pre-Stabilization

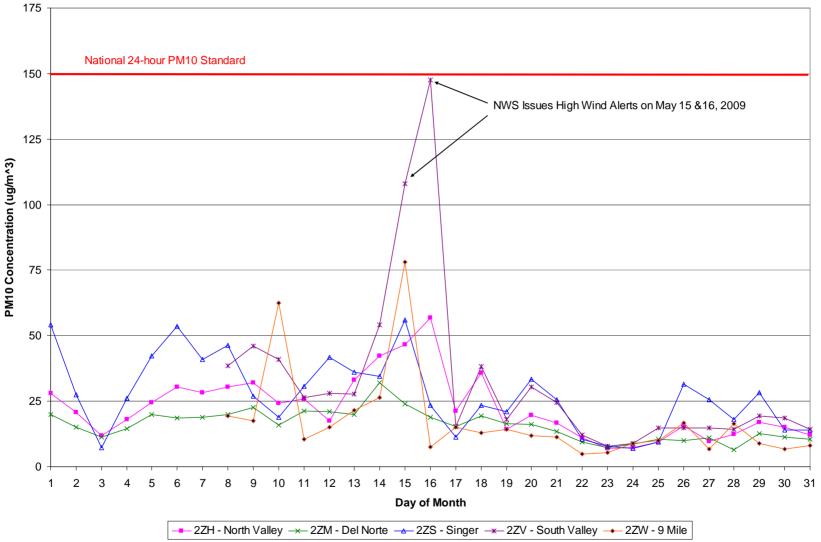


#### 2ZV – South Valley Station Southern View – Post-Stabilization

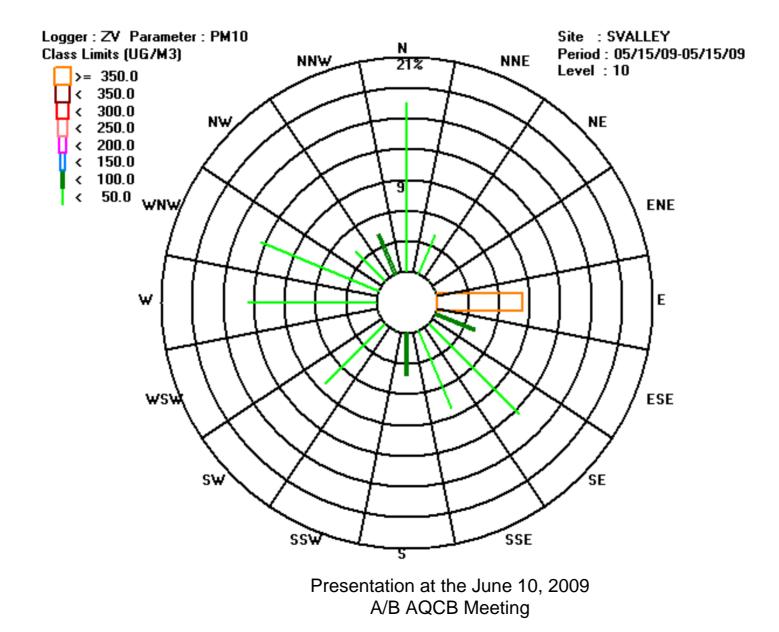


#### Air Quality Division Bernalillo County-Wide NON-Quality Assured Continuous PM10 Measurements for May 2009

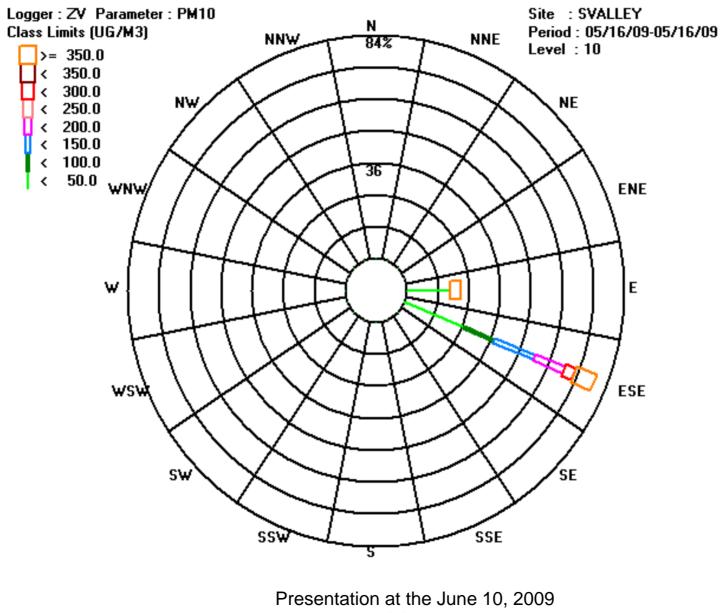




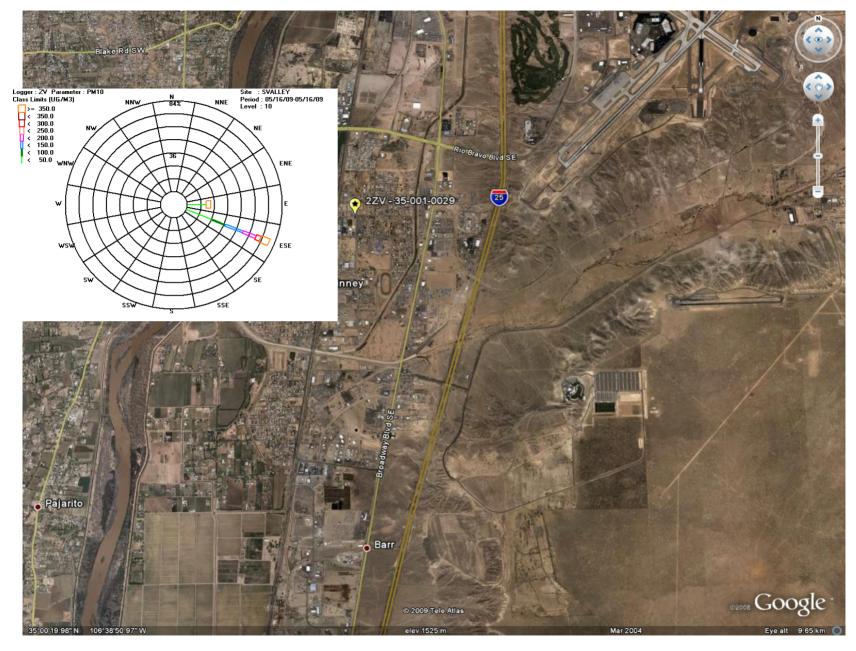






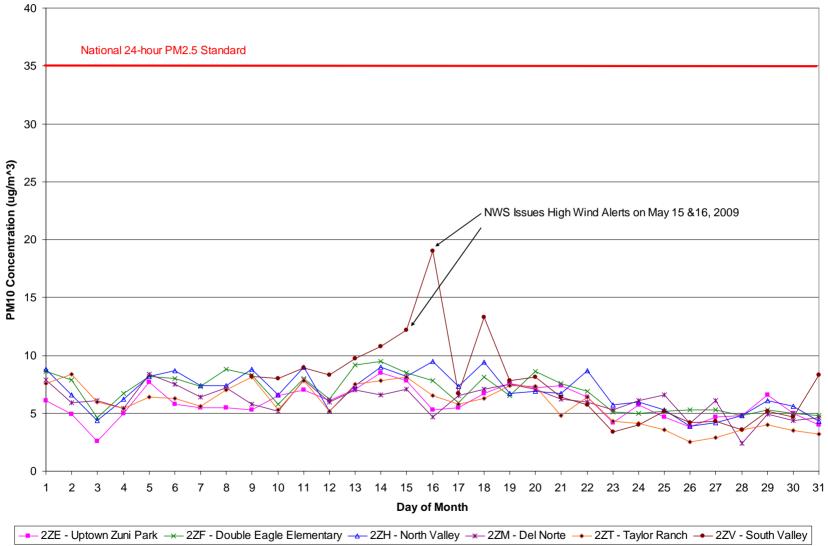


A/B AQCB Meeting



#### Air Quality Division Bernalillo County-Wide NON-Quality Assured Continuous PM2.5 Measurements for May 2009





### **<u>Climate Change Information and Data</u>**

- http://nosa.noaa.gov/
- http://www.esrl.noaa.gov/gmd/ccgg/index .html

## Air Quality Announcement

- US EPA (Washington, D.C. May 21, 2009)
   EPA Announces New IRIS Assessment Development Process
- Integrated Risk Information System (IRIS)
- http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=190045
- Contact: LaTisha Petteway, 202-564-3191 / 4355 / petteway.latisha@epa.gov

### Questions?