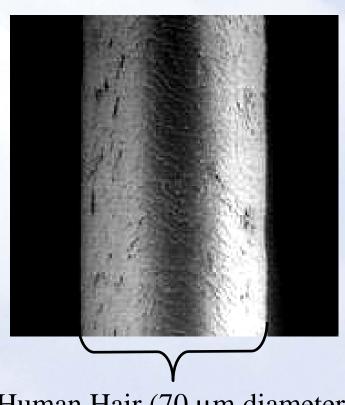
Fine Particle Pollution Redesignation Request

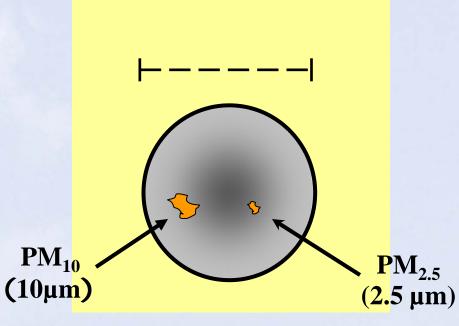
Joan Rohlfs, MWCOG/DEP Feb. 15, 2012

How Fine is Fine?

Particles are only a fraction of the size of a human hair



Human Hair (70 µm diameter)



Hair cross section (70 µm)



Air Pollution: Fine Particles

- Chemical, particulate matter or aerosol that modifies the natural characteristics of the atmosphere
- Created locally by emissions from coal combustion, cars
 & trucks, road construction
- Causes respiratory problems
- Impairs visibility

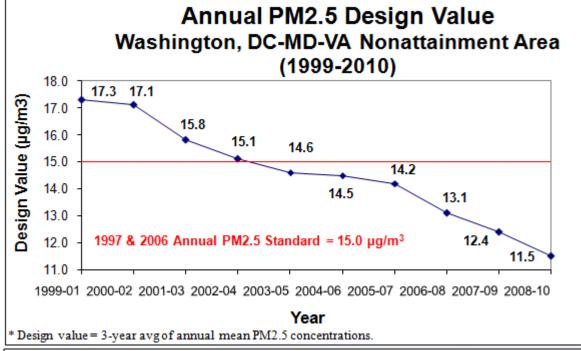


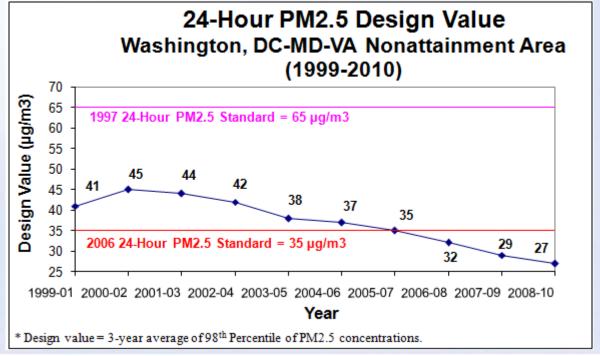




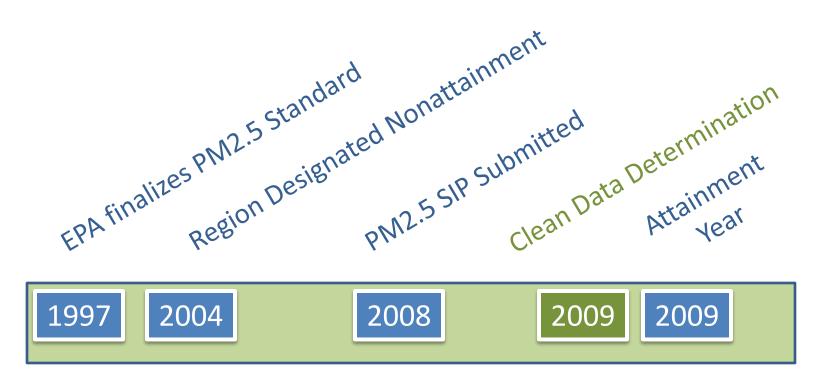
Steps to Official "Attainment" Status

- 2005 Air quality monitors indicate that average annual concentrations are below the national health standard
- 2008 MWAQC, States submitted PM2.5 SIP showing attainment by 2009.
- EPA issues a "Clean Data Determination," 2009
- States request redesignation to attainment and submit a plan to maintain low levels of fine particle pollution for 10 years into future

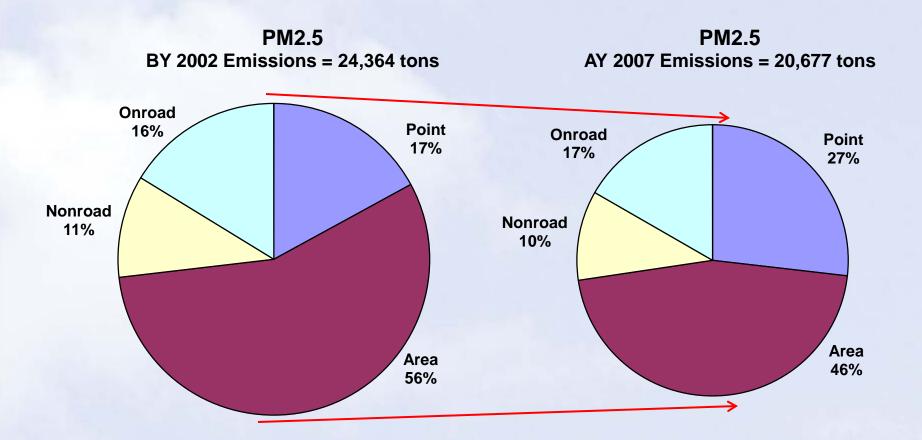




SIP submitted to EPA, 2008



PM2.5 Emissions, 2002-2007



8

Base Year 2002 - Point & area (PM2.5 SIP), nonroad & onroad (NMIM & MOVES) Attainment Year 2007 - Point, area, nonroad - MARAMA, onroad - MOVES AY 2007 emissions are draft.

Redesignation Request & Maintenance Plan Time Frame

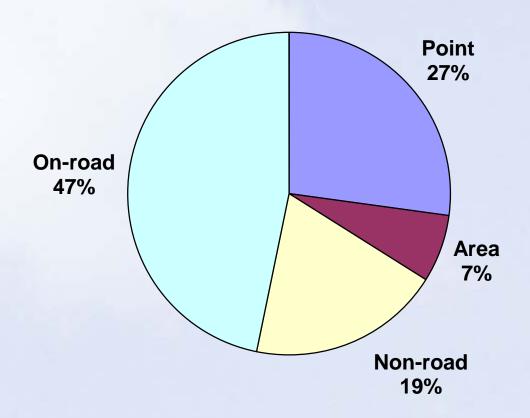


Emissions Trend
(Washington, DC-MD-VA PM2.5 NAA)

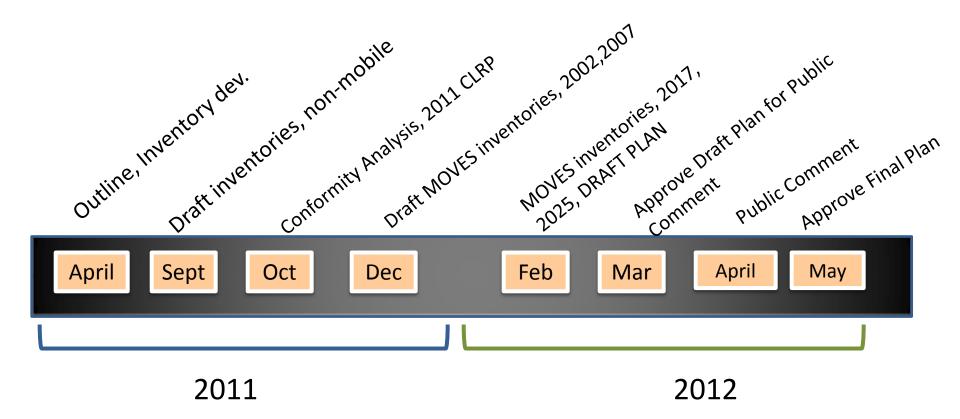


Source Contribution of NOx Emissions, Metro. Washington Region

NOx 2007 Annual Emission = 139,324 tons



PM2.5 SCHEDULE TO REDESIGNATION



IMPLICATIONS FOR CONFORMITY

- Maintenance Plan submitted to EPA in early June
- Completeness review of Plan
- EPA will do an adequacy review of the mobile budgets
 - Notice on OTAQ website, 30 day comment period on proposed budgets
 - Adequacy Determination notice published in Federal Register
 - Maintenance Plan PM2.5 mobile budgets effective 15 days later
- 90-100 day process after submittal until budgets are active and must be used in conformity (estimated time: September 2012)