



# Attainment Modeling Status Report

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Metropolitan Washington Air Quality Committee  
(MWAQC)

December 13, 2006

Presented by: VA Department of Environmental Quality

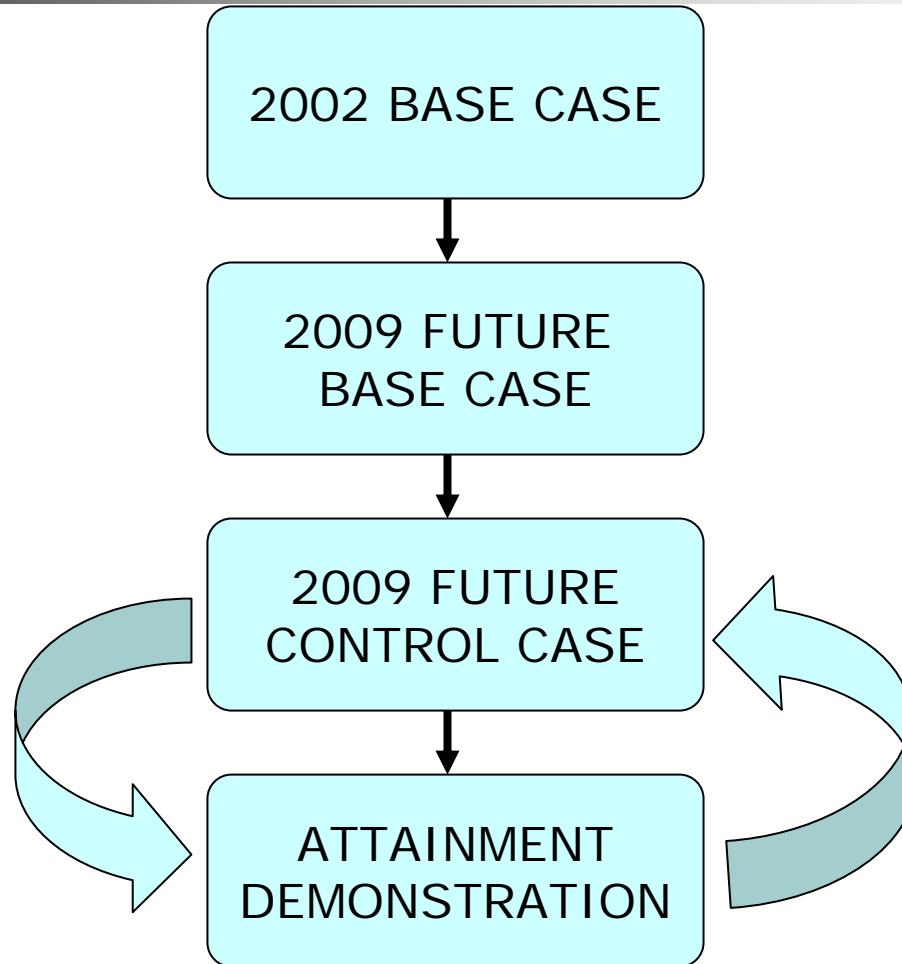
# Purpose of Attainment Modeling



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- Meet EPA requirements & guidance
- Predict future air quality conditions
- Develop & test potential control strategies
- Translate emission reductions into air quality benefit
- Demonstrate desired air quality outcome

# Attainment Modeling Steps





# Latest Modeling Results

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- Updated modeling effort:
  - Updated regional emissions inventories
  - Updated air quality model
- 2002 base case run by NY DEC
- 2009 future base case run by VA DEQ
  - Included OTB/OTW controls
- Initial results up to 3 ppb higher than previous modeling in DC area
- Evaluation of results begun

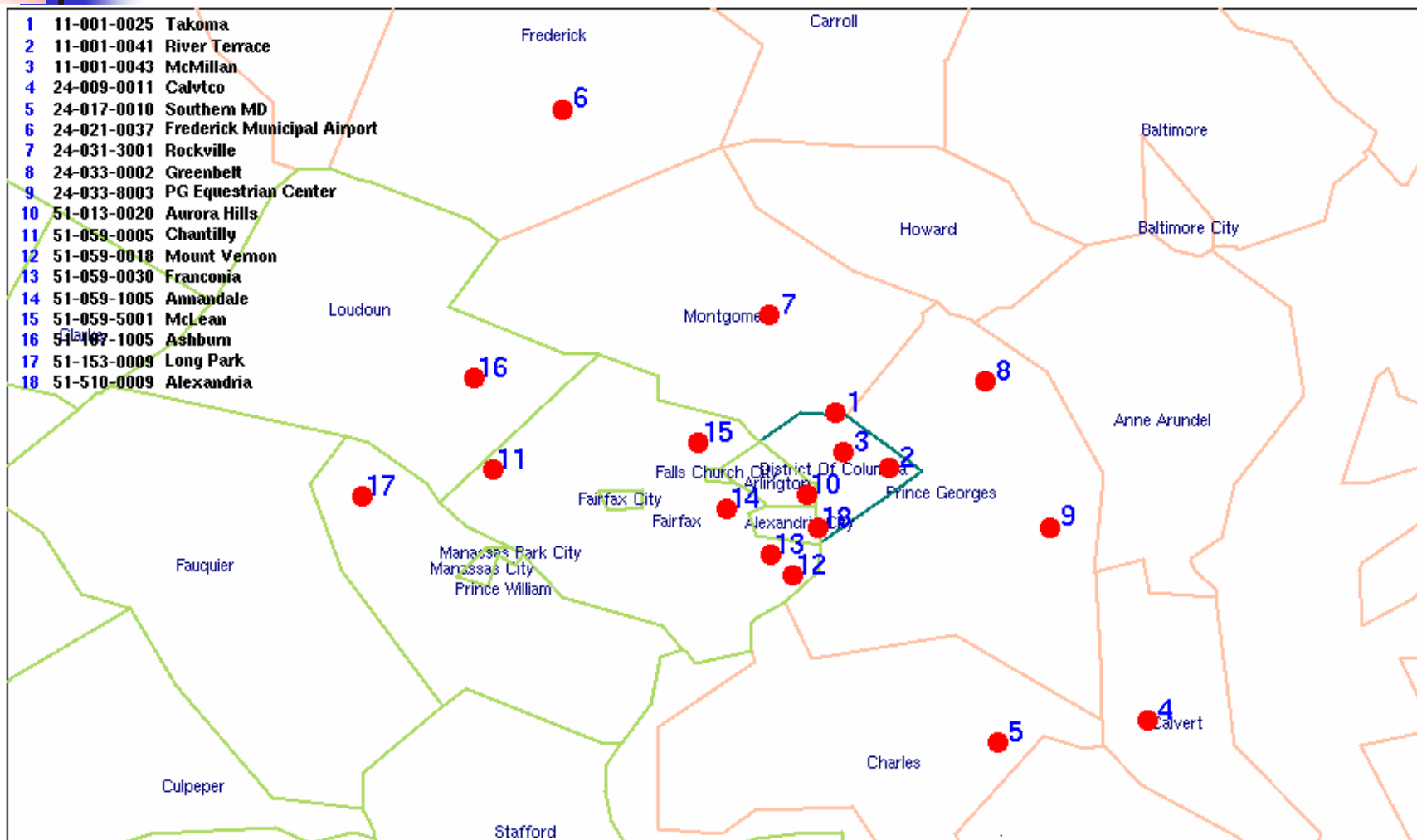


# Latest Modeling Results (Cont)

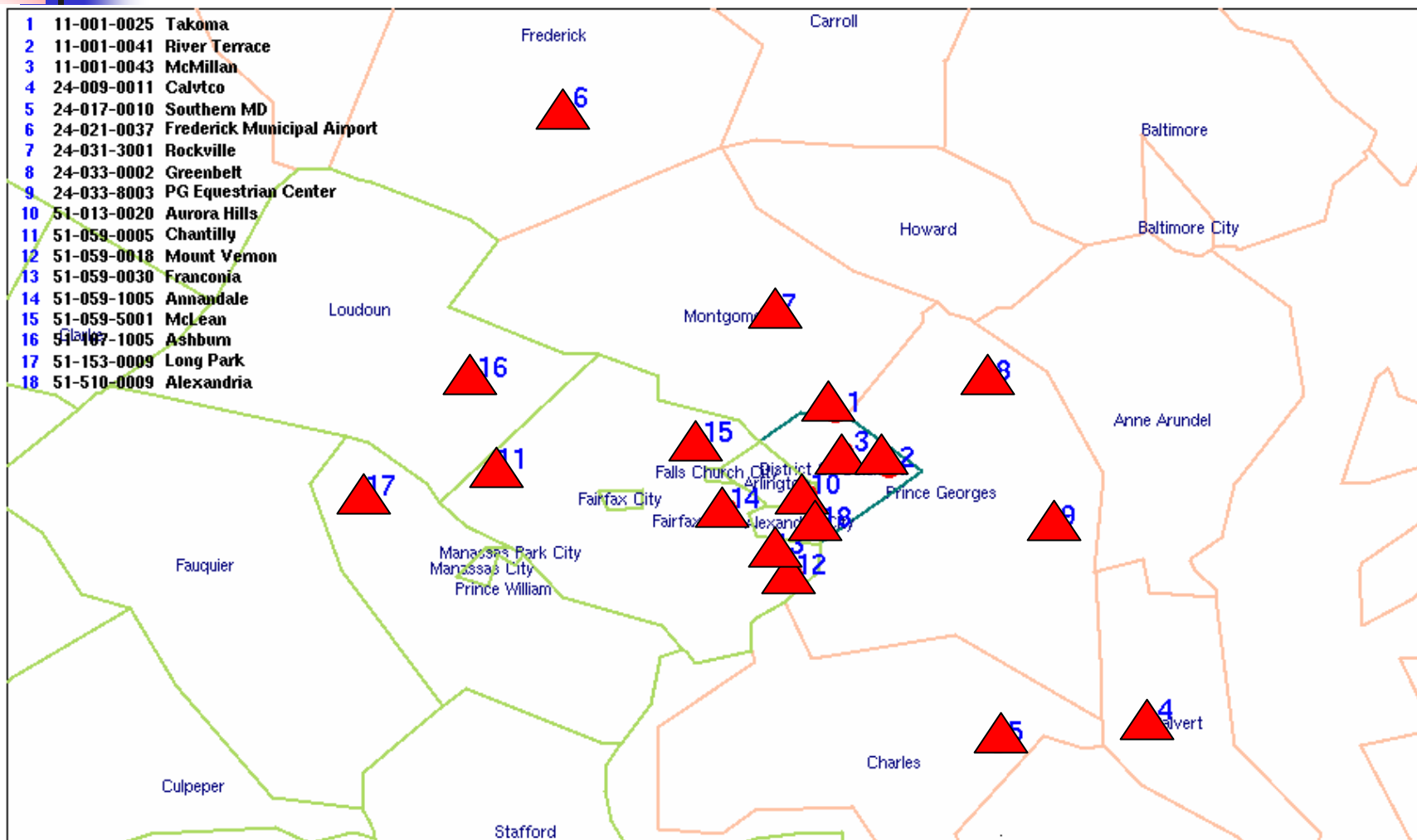
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- Emissions error found
  - No mobile emission reductions in the southeast
- Corrected model run underway
- Results in early January
- **Interim draft results** calculated using partial ozone season data
- Future modeling efforts/schedule:
  - Final DC control strategy (Feb)
  - Additional OTC controls (Feb/Mar)

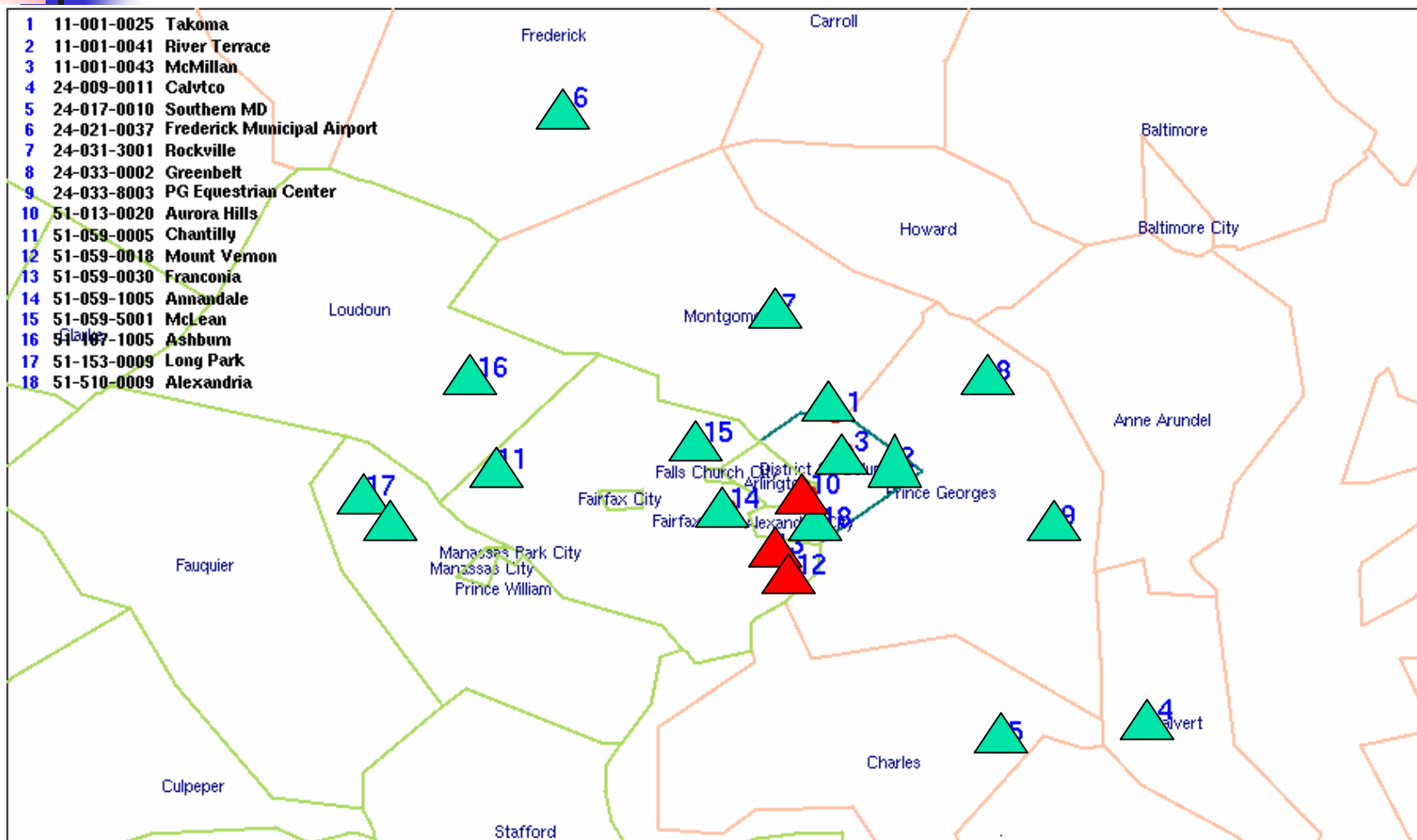
# Location of Ozone Monitors



# Actual Monitor Status – 2002



# Predicted Monitor Status – 2009







# Remaining 2009 8-Hour Ozone Problem Monitors

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- Virginia
  - Arlington-0020 = 87 ppb
  - Fairfax-0018 = 86 ppb
  - Fairfax-0030 = 85 ppb



# Weight of Evidence (WOE)

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- Supplemental analyses supporting attainment demonstration
  - Acknowledges model uncertainties
- All DC monitors back within WOE range
- Types of analyses:
  - Emissions trends
  - Air quality trends
  - Other modeling results
  - Model uncertainty evaluations



OTHER MODELING RESULTS

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SOUTHEAST OZONE MODELING  
PROJECT



# 2009 8-Hour Ozone Problem Monitors

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- Virginia
  - Arlington-0020 = 87 ppb
  - Fairfax-0018 = 86 ppb
  - Fairfax-0030 = 85 ppb