

Changes and Improvements in the Ambient Air Quality Monitoring Program Quality System

Michael Papp- OAQPS

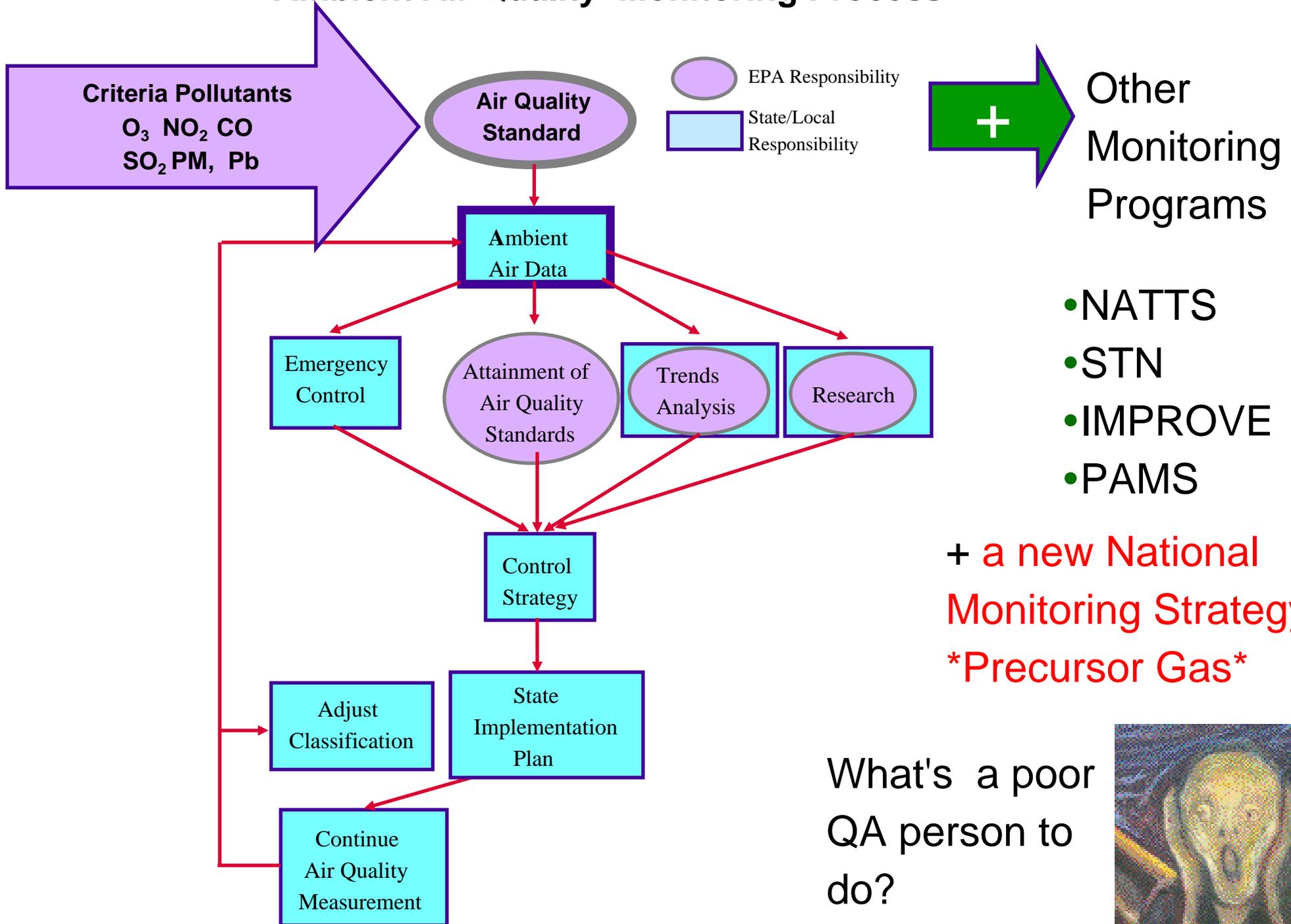
24th Annual Conference on Managing
Environmental Quality Systems



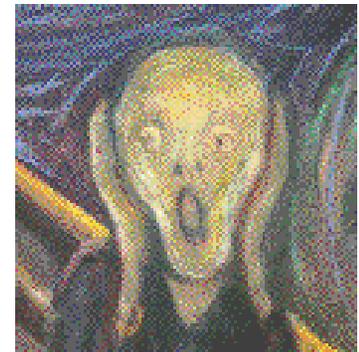
Areas of Discussion

- Program Background
- New Networks- where are we?
- Changes in the Regs
- National Performance Evaluation Programs- Additions /Improvements
- QAPP Software
- Precision and Bias Reporting
- Precursor Gas Monitoring
- Communication

Ambient Air Quality Monitoring Process



What's a poor QA person to do?



National Core (NCore) Monitoring Network

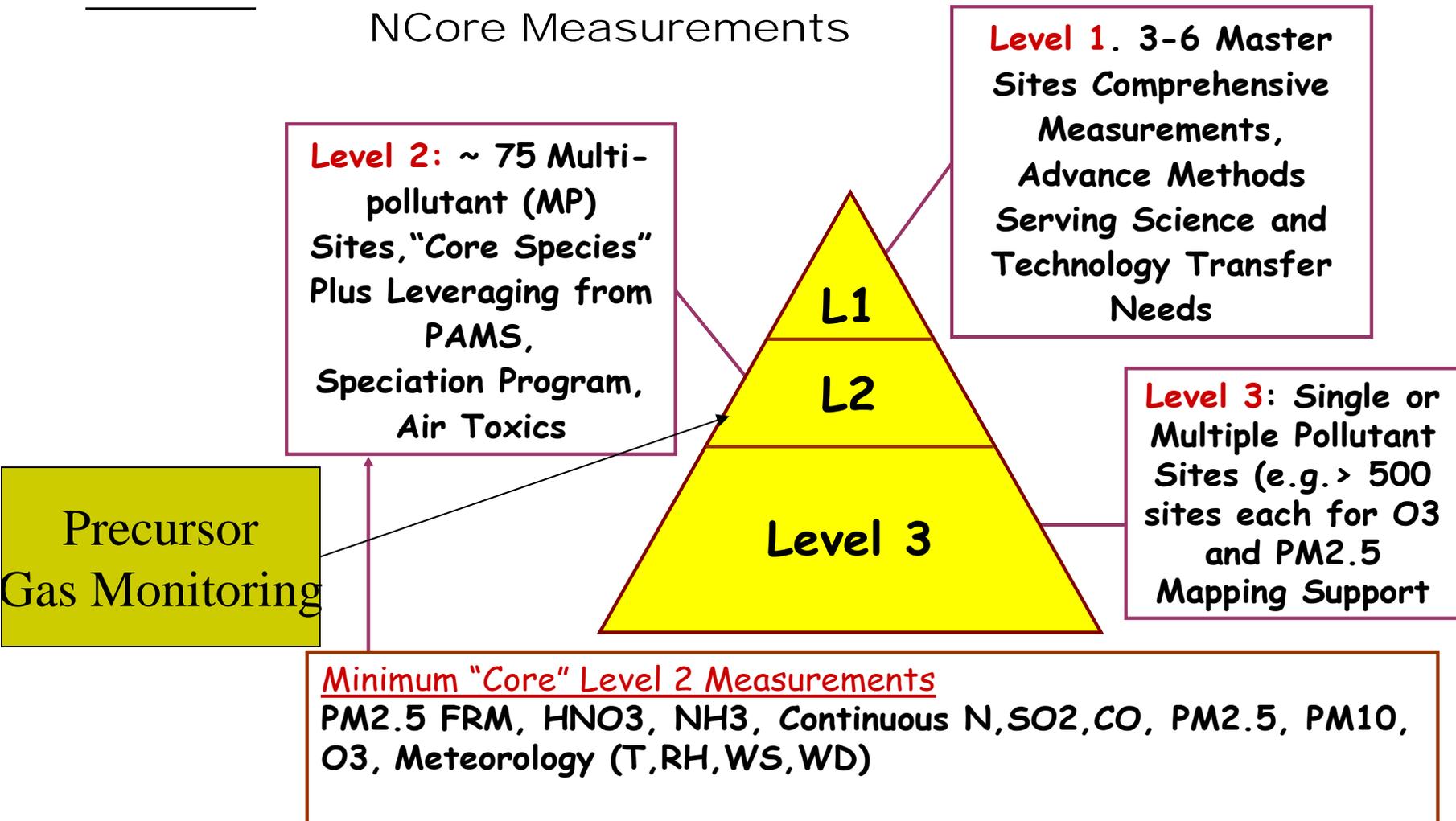


Figure 1 NCore Structure

Changes in the Regulations

(40 CFR Part 58 Appendix A)

- Ensure regs reflect current EPA QA Policy and requirements
 - QAPP/QMP, QA Manager (Lead), Graded Approach
- Removed out of date methods
- Reduced burden where it showed that we could
- Changed Statistics
- Currently being reviewed by OGC

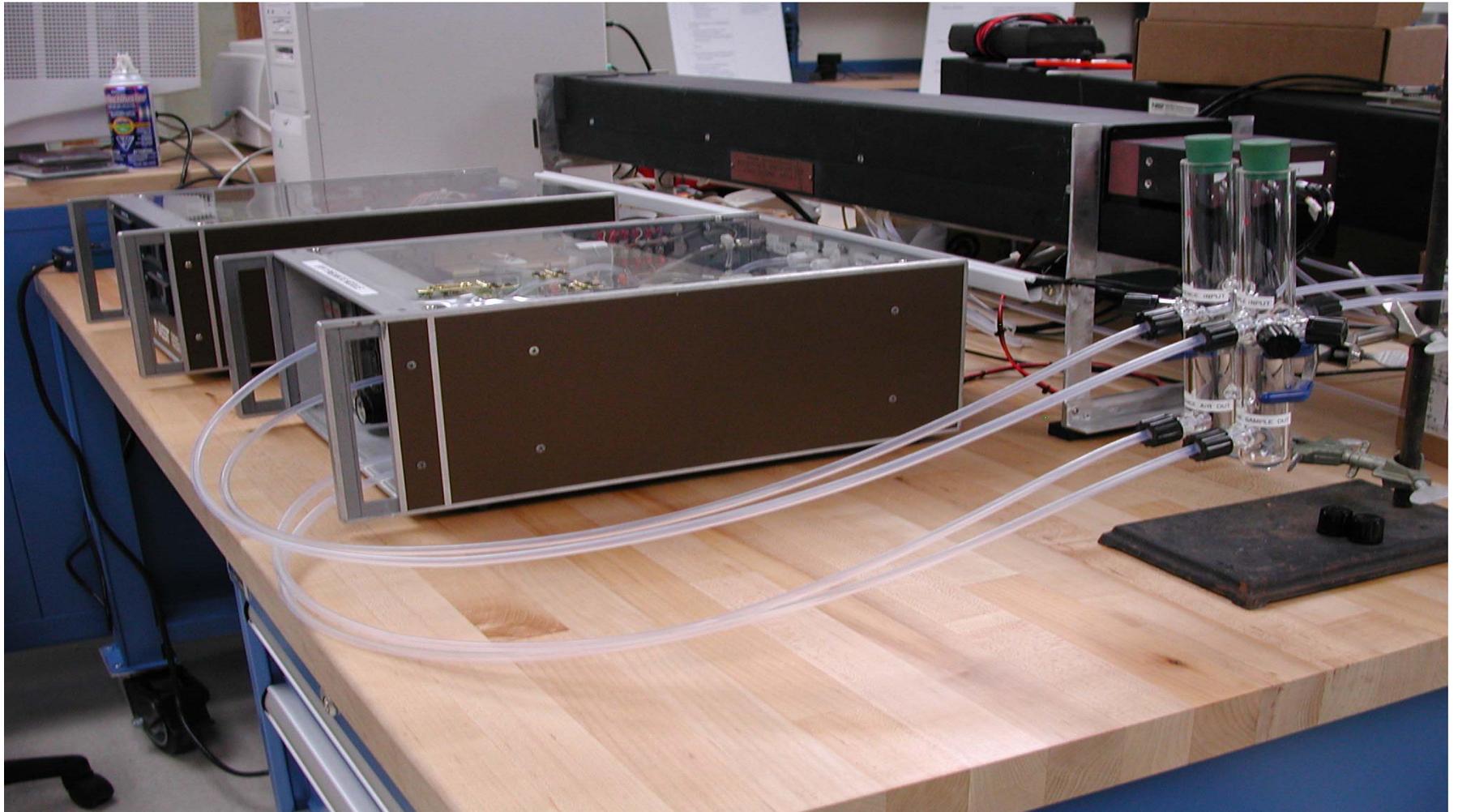
National Performance Evaluation Program (NPEP)

- NPAP
- PM_{2.5} PEP
- NATTS Proficiency Test
- STN/IMPROVE Round Robins
- OZONE SRP
- Cylinder Certifications
 - PAMS
 - Precursor Gas
 - NATTS
- Protocol Gas Program

National Performance Audit-Through the Probe Program

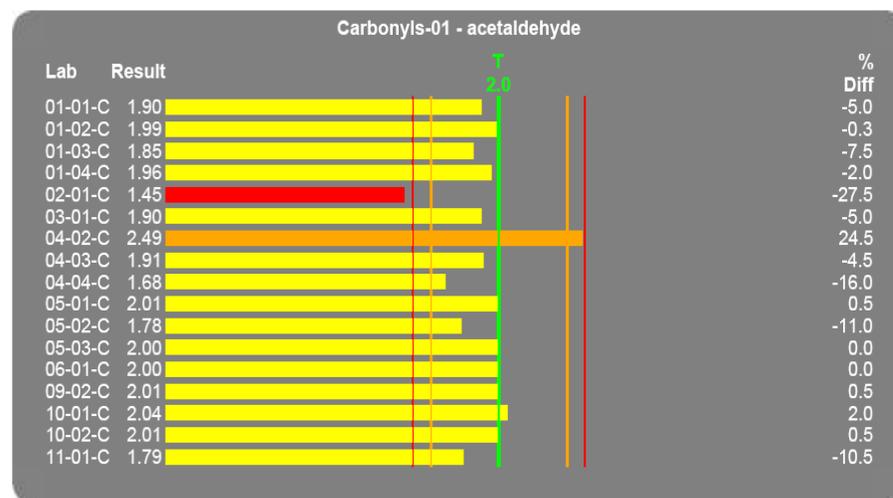
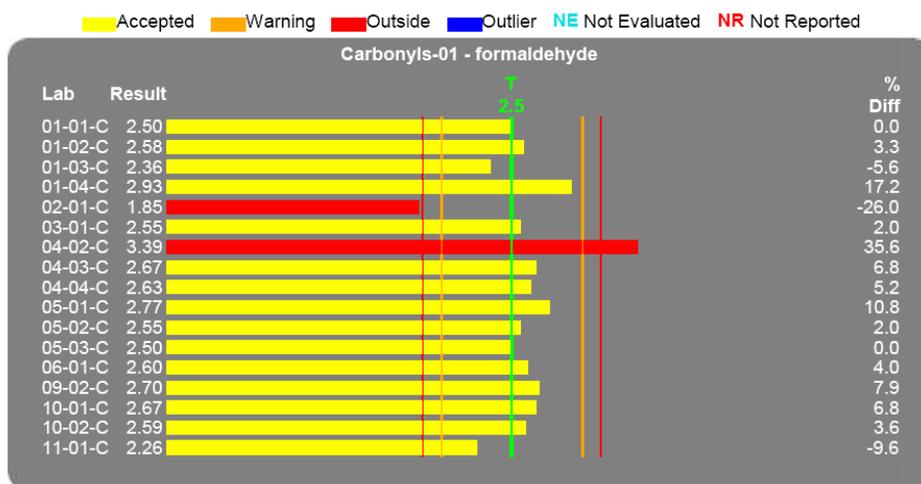


Standard Reference Photometer Program



NATTS PT Studies

- 3 Audits Types
 - VOCs, Carbonyls, metals
- 4 times/year
- 16-17 labs
- Shows
 - Comparability
 - Quantification
- 3 PTs performed so far



QAPP Software

- Proposed for Tribal Initiative Funds
- Wanted to model after Turbo-Tax
- OAQPS has a wealth of guidance on each element
 - Why not put it at the fingertips of those writing a QAPP?
- Expected by September 05

Choosing your QAPP category

There are four different categories of QAPP, each of these categories require the utilization of different QAPP elements as describe in EPA RS. Category 1 is the most stringent and category 4 is the least stringent. Please refer to the tip below to select your QAPP category.

Category:

Selecting your category

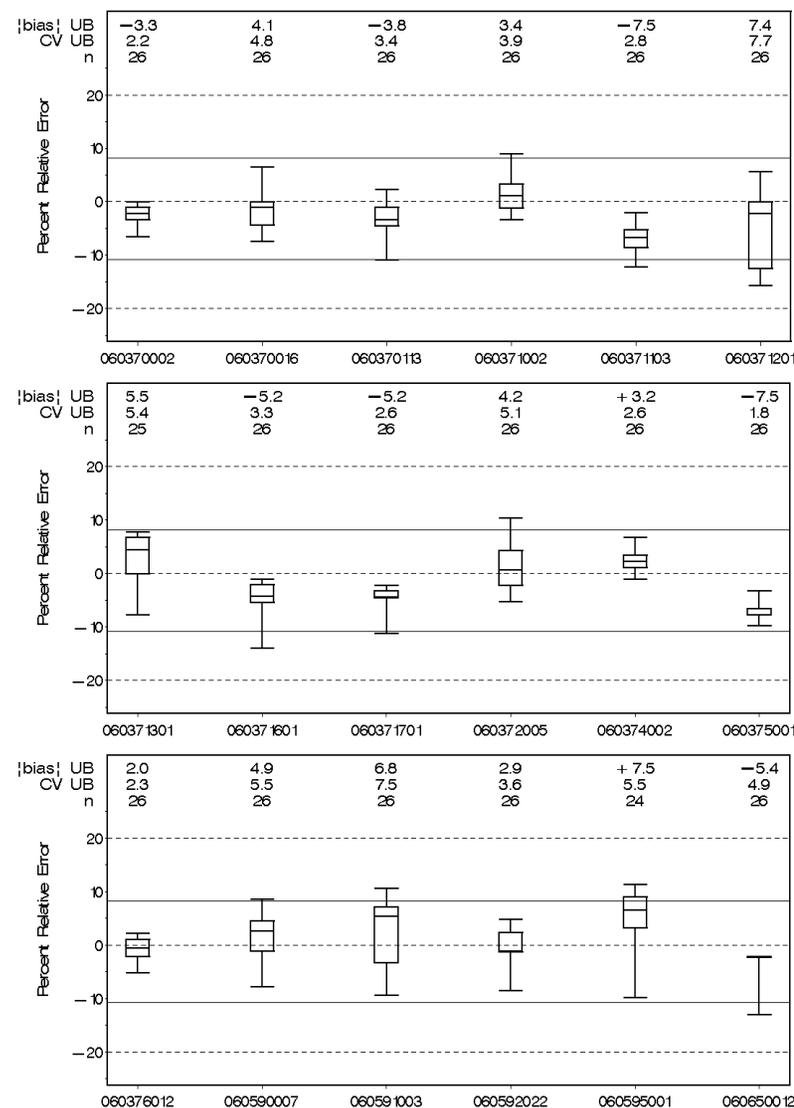
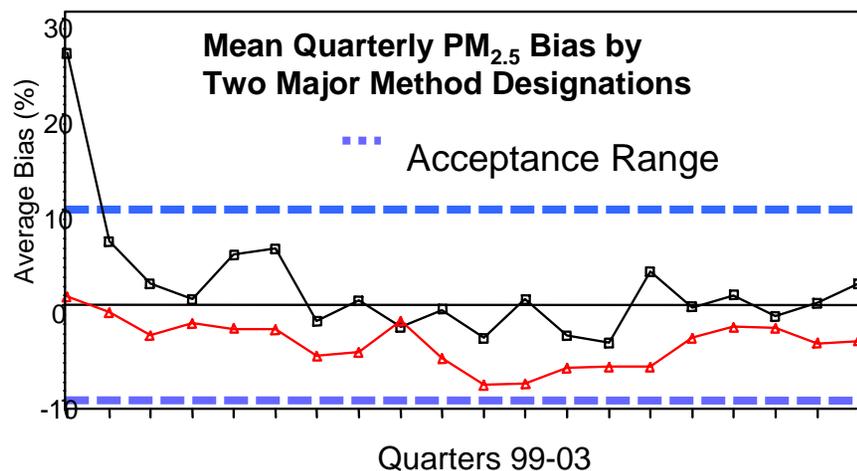
Category	Typical Programs	Comments
Category 1	SLAMS, NAMS, PSD, Noone, IMPROVE, etc.	Generally separate GMP and QAPP but c monitoring organizations (Tribes) if apper formal DQOs.
Category 2	Speciation Trends, Toxics Mon, Super Sites	Generally separate GMP and QAPP but c monitoring organizations (Tribes) if apper formal and flexible DQOs.
Category 3	SPM, one time Studies	Quality Management Plan (GMP) and QAI contains flexible DQOs
Category 4	Education / Outreach	Contains the Project Objectives and Goals

Warning: If you are unsure of which category to select, please verify with your EPA regional officer. Your EPA regional officer help you decided the category to select

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Annual Precision & Bias Reports

- Annual assessments of precision, bias and completeness at the site, monitoring organizations and national levels.
- Up on AMTIC
- Automated features and Graphics for each site within a reporting organization

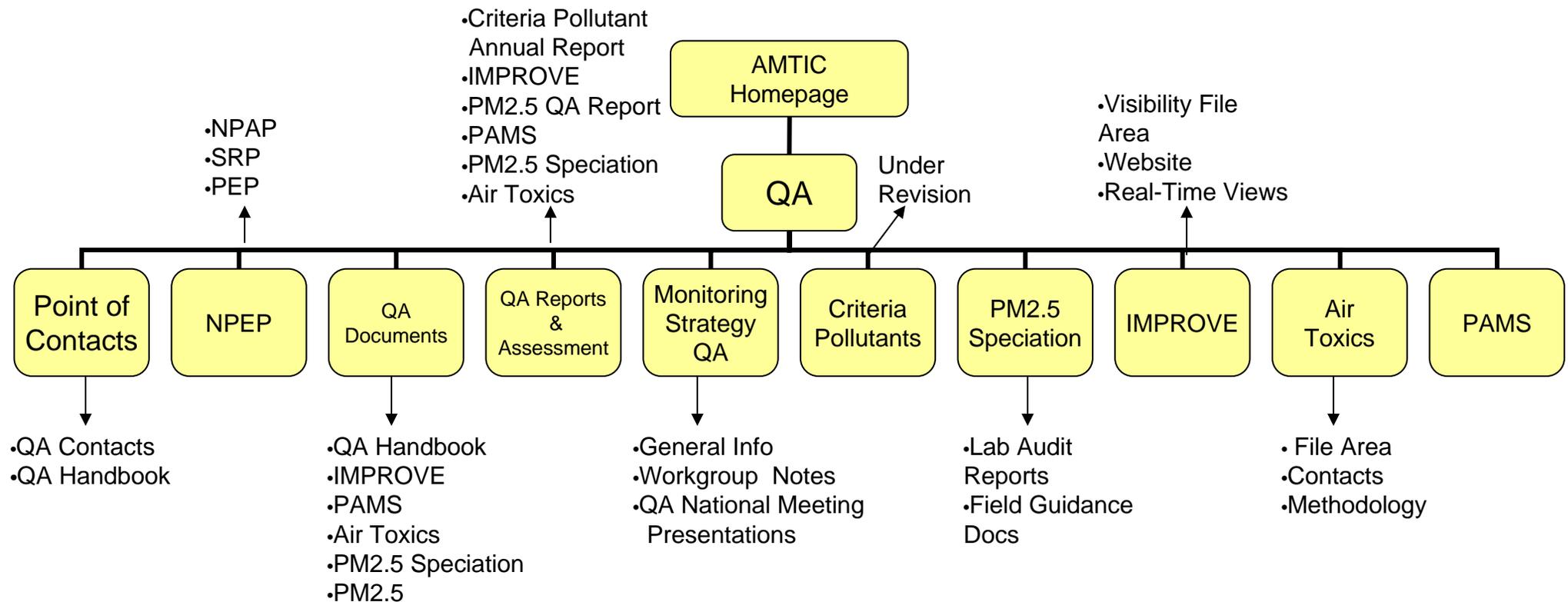


Precursor Gas Monitoring

- OAQPS Team testing out trace gas instruments from 2 vendors
- Testing a number of data quality indicators
 - LDL, MDL, Precision, Bias, Zero, Span etc.
 - In process of coming up with MQOs
- Now sharing that info with Pilot Workgroup
- DQO development-end of April

Map of Ambient Air Quality Assurance Website

<http://www.epa.gov/ttn/amtic>



Future Work Next 1-2 years

- DQO Development NCore
- NCore Training
- Automation of Annual QA Summary Reports on AQS
- More time spent on DQA activities
- Completion of QA Handbook
- QA Manager Training/Certification
- Completion of Turbo- QAPP
- PMcourse? DQOs/Training