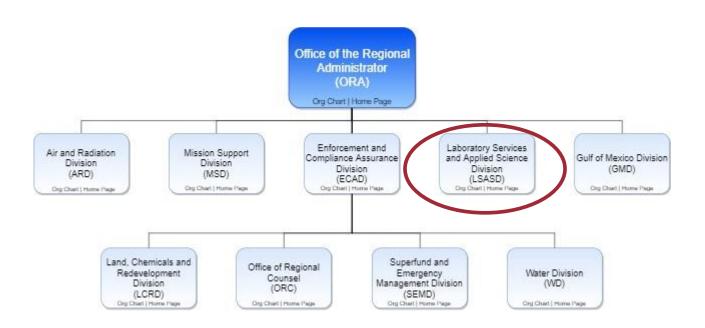
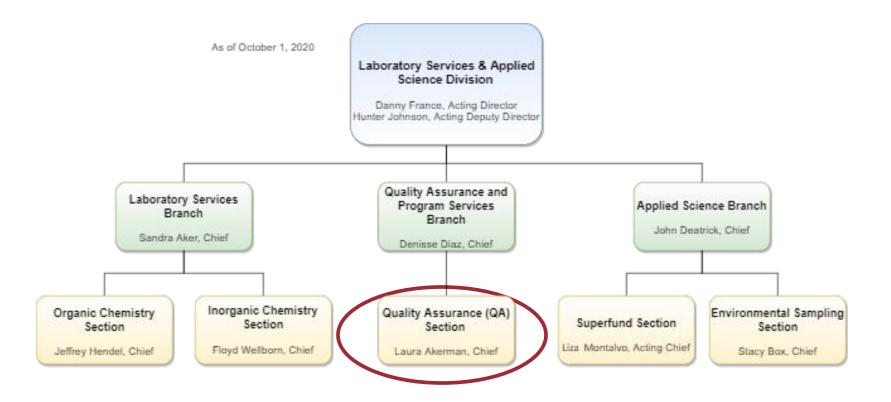
Region 4 Air Monitoring Quality Assurance

Laura Ackerman, Chief Quality Assurance Section Region 4 706-355-8776 ackerman.laura@epa.gov

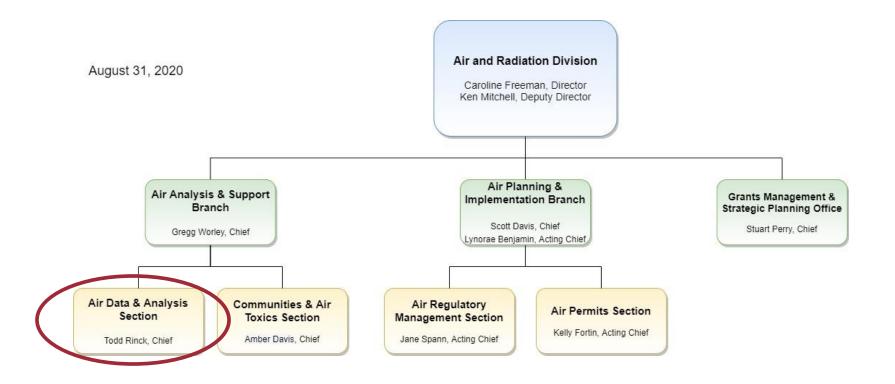
EPA REGION 4 ORGANIZATIONAL STRUCTURE



LSASD



ARD



Roles and Responsibilities

ARD

- Network plan & assessment reviews & approvals
- Monitoring site approval
- Data certification reviews
- Data analyses
- Grant reviews
- Training

LSASD

- TSAs
- QAPP reviews & approvals
- SRP verifications
- Training
- Technical support to state/local/tribal air monitoring agencies
- NPEP audit coordination
- Annual PM filter order
- Toxics program support
- New site reviews

Region 4 Ambient Air Monitoring Network

Total # of Sites

- Region 1: 87
- Region 2: 83
- Region 3: 191
- Region 4: 338
- Region 5: 372
- Region 6: 242
- Region 7: 114
- Region 8: 232
- Region 9: 368
- Region 10: 84

Total # of Criteria Monitors

- Region 1: 307
- Region 2: 231
- Region 3: 560
- Region 4: 856
- Region 5: 924
- Region 6: 630
- Region 7: 341
- Region 8: 669
- Region 9: 1160
- Region 10: 179

Region 4 Air Monitoring Agencies

- 28 Monitoring Agencies
- 18 Primary Quality Assurance Organizations
- Florida
 - 7 locals
- North Carolina3 locals
- Tennessee
- Memphis, TN
- Chattanooga, TN
- Nashville, TN
- Knoxville, TN

- Mississippi
- Alabama
- Birmingham, AL
- Huntsville, AL
- Kentucky
- Louisville, KY
- Georgia
- South Carolina
- 3 Tribes

Region 4 Air Monitoring QA

- Technical Systems Audits
 - ~ 9 audits per fiscal year (FY)
- QAPP Reviews/Approvals
- Standard Reference Photometer
 - ~50 Ozone instrument certifications per FY
- National Performance Evaluation Program Audits
 - ESAT Contractors
 - ~200 NPAP & PEP per FY
- National PM_{2.5} Laboratory
 - ESAT Contractors
 - Weigh ~7000 filters per FY
- Training & Workshops
- Special studies
- Hurricane responses

R4 Air Monitoring QA Staff



Current Challenges

- Loss of trained, experienced staff
- Many new, inexperienced air monitoring personnel
- Lack of training resources
- Budget difficulties
 - Difficult to replace staff as they retire or leave
 - Difficult to replace aging equipment
 - In some cases, difficult to obtain standards and QA certifications in a timely manner

Common Technical Systems Audit Findings

- Loss of knowledge, trained personnel
- Inadequate or lack of data validation
 - Not validating contract lab data packages
- Issues with QAPPs and SOPs
 - New SOPS needed for: Data Validation, Document Control, Records Management
- Poor documentation practices
- Aged monitoring equipment
- Not following instrumentation FEM requirements

National Contributions

- APTI 470 Course Stephanie McCarthy
- Ozone TAD Update Keith Harris
- Air Monitoring QAPP Guide (Workgroup) –
 Stephanie McCarthy
- Data Validation Guidance (Workgroup) –
 Stephanie McCarthy