



# Spring CAPCA 2021 South Carolina Update

April 8, 2021

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Chief, Bureau of Air Quality, SCDHEC



# Overview

- New Agency Director
- BAQ Management Team Update
- Staff Return to the Office
  - Remote Work Productivity
- NAAQS Update
- SIP & Regulatory Updates
- Permitting Updates/Reminders
- ePermitting Update
- Ethylene Oxide ( EtO) Update
- Mobile Source Grants



South Carolina Department of Health and Environmental Control  
Healthy People. **Healthy Communities.**

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**Email questions to:**

**[capcaspring@gmail.com](mailto:capcaspring@gmail.com)**

# New Agency Director



- Dr. Edward Simmer
- MD, MPH, DFAPA
- Confirmed and started February 4, 2021
- 30+ years of active duty in US Navy
- Bio: <https://scdhec.gov/about-dhec/agency-leadership/dr-edward-simmer-director>

# BAQ Management Update



- Denise Hall
- Air Toxics Section Manager
- Effective April 2, 2021
- 26+ years in Bureau (air toxics, permitting, modeling, and emissions inventory)

# BAQ Staff Assisting with COVID -19 Response

## Temporary Assignments:

- Keith Frost – Incident Commander
- Chris Hardee – data analysis
- Jack Porter – vaccine sites
- Sam Christmus – testing sites

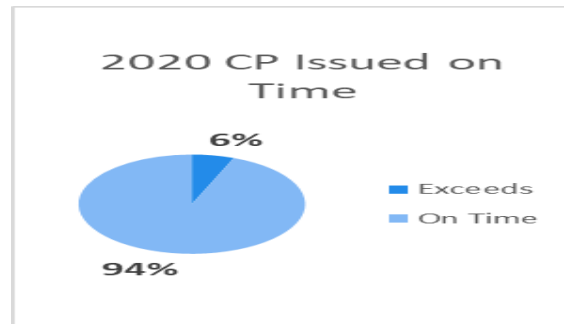
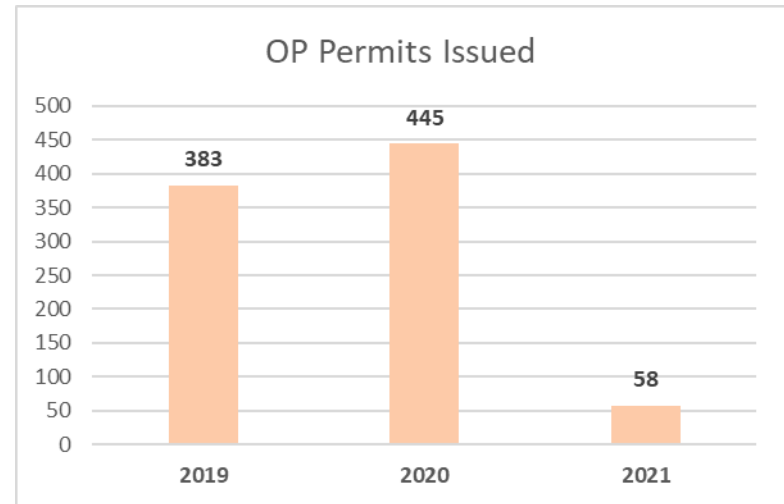
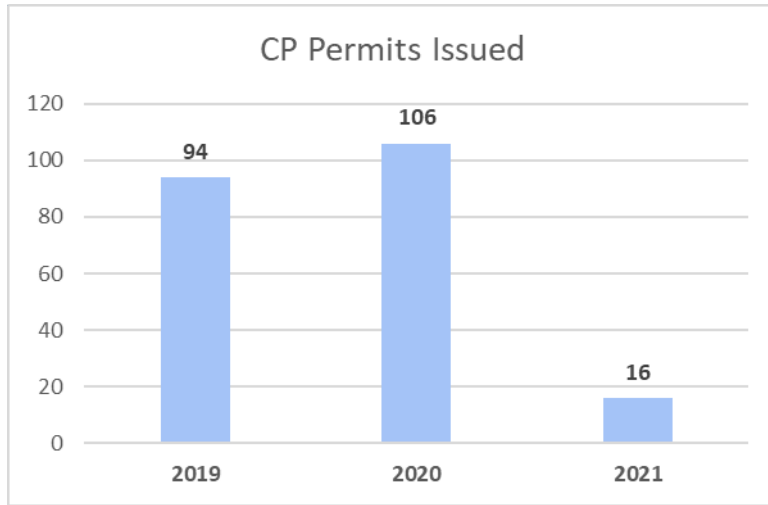
## Part –time Assignment:

- Monica Taylor (part –time) – community outreach and engagement

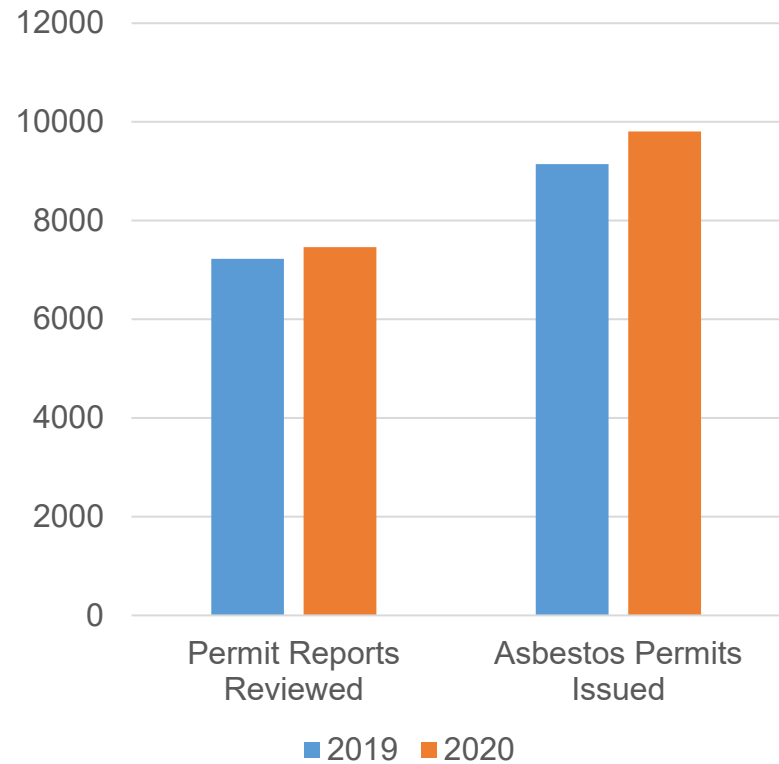
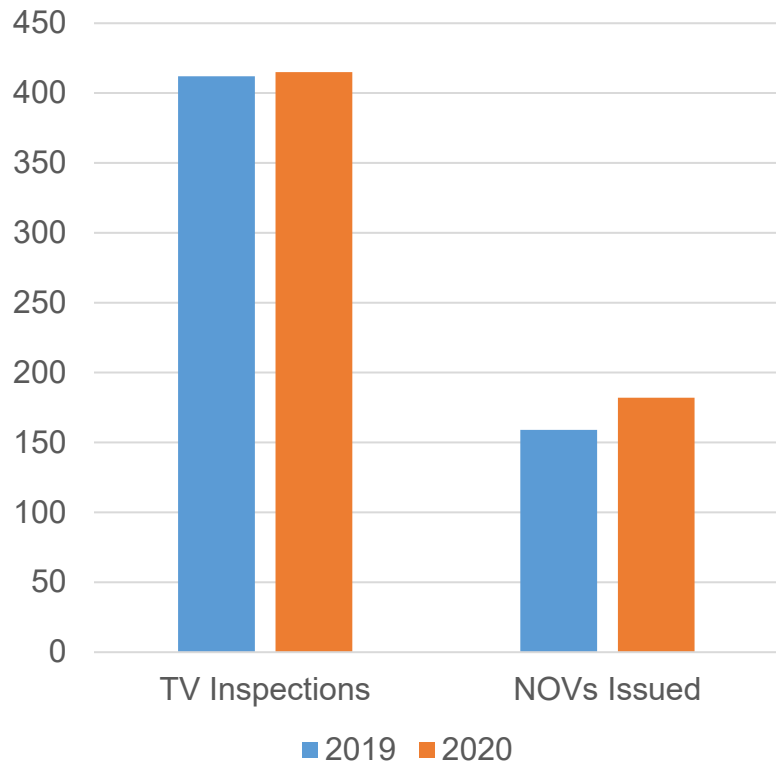
# Staff Return to the Office

- Governor Executive Order 2021 -12
  - Return by March 15, 2021
- Granted extension
  - 75% by March 15, 2021
  - Remaining 25% by April 5, 2021

# Remote Work Productivity



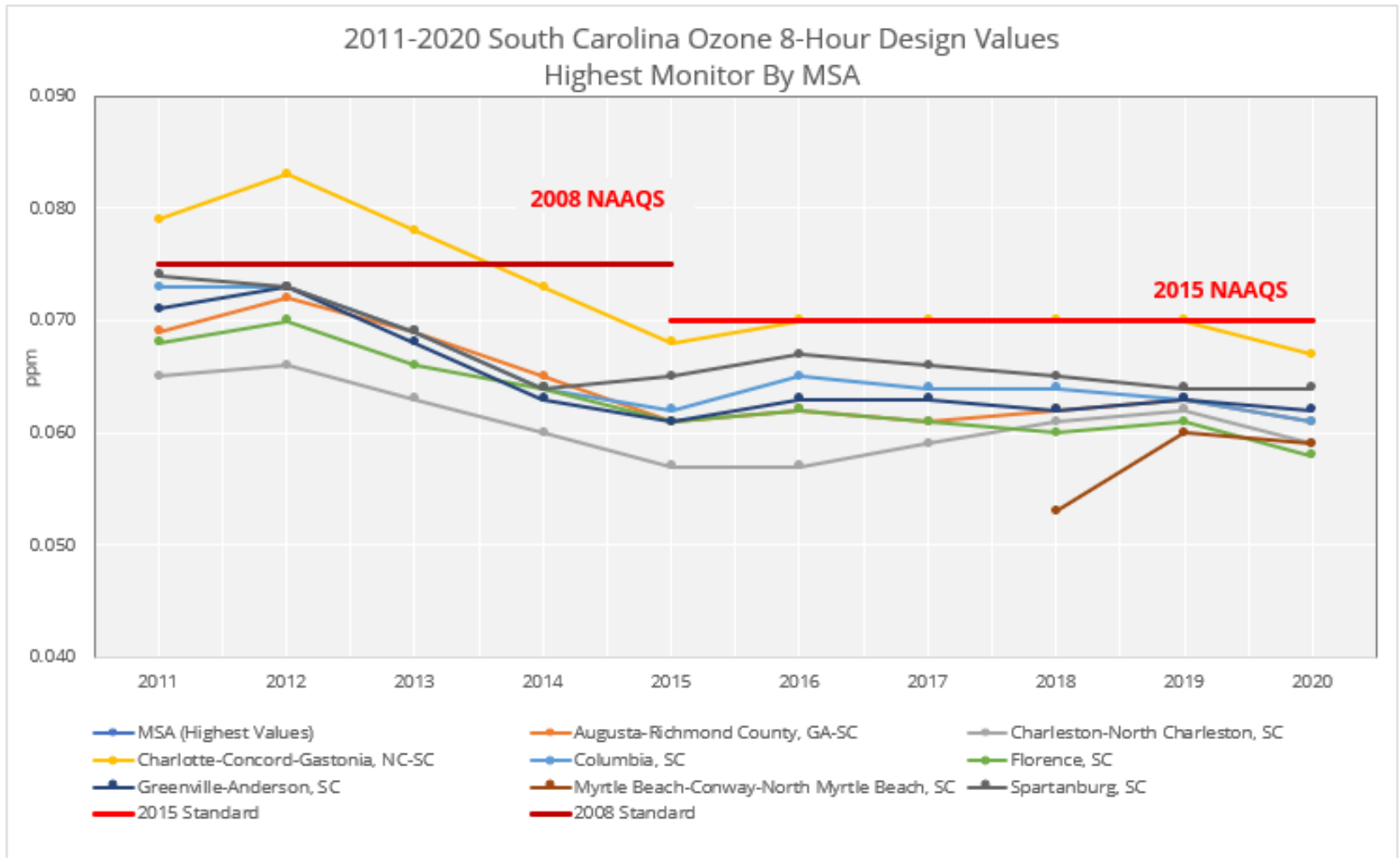
# Remote Work Productivity



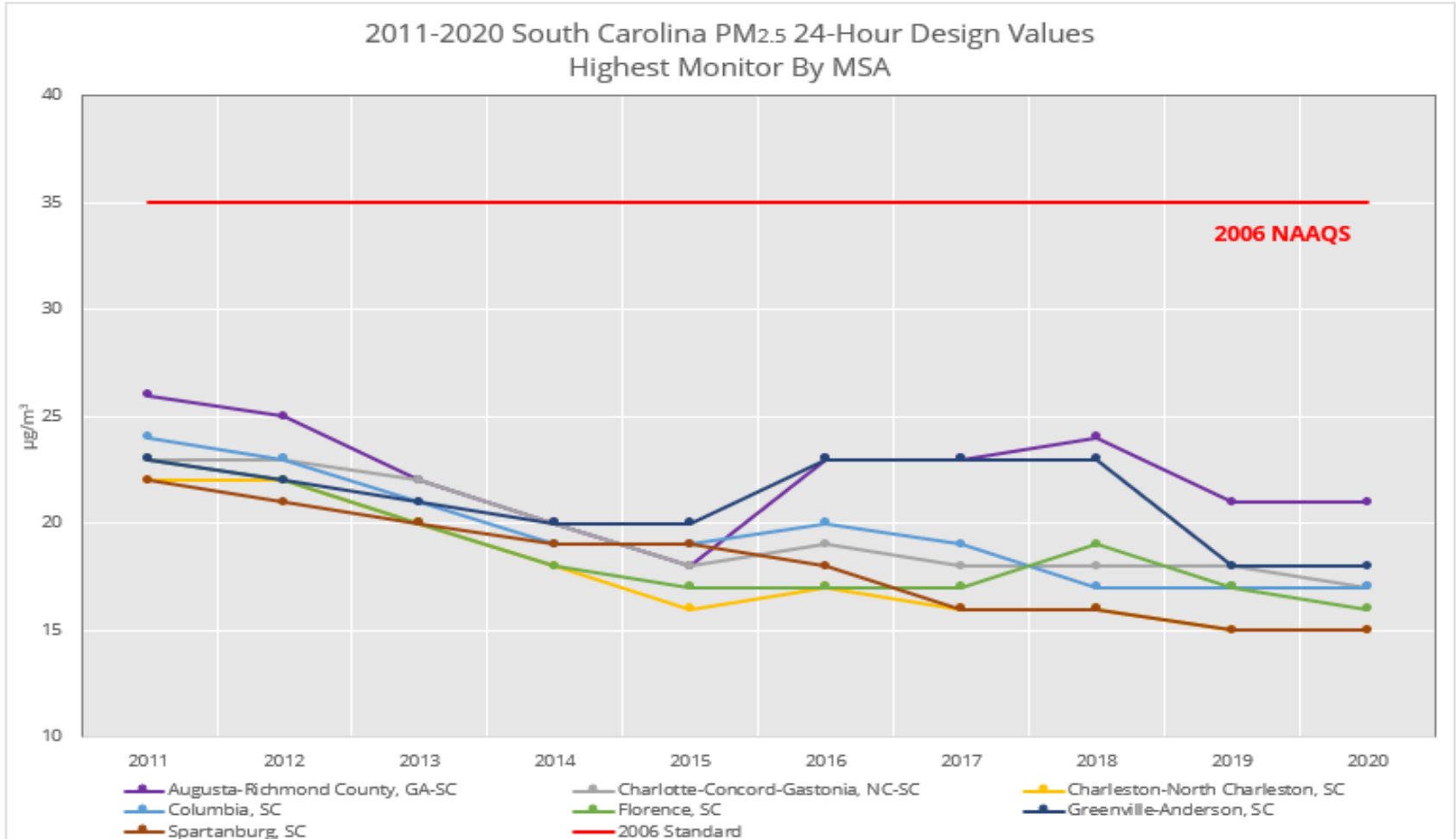
# NAAQS Update



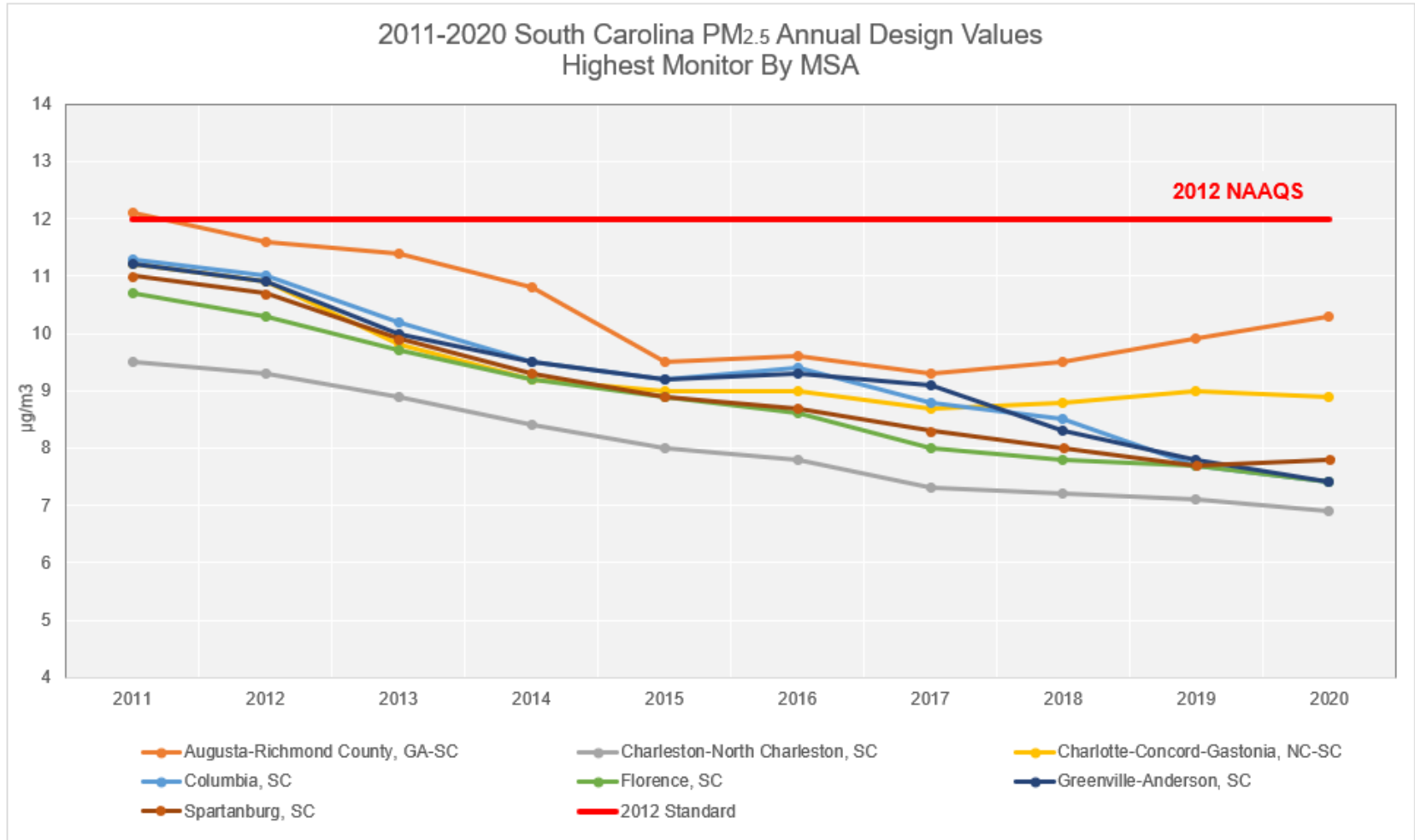
# Ozone Design Values



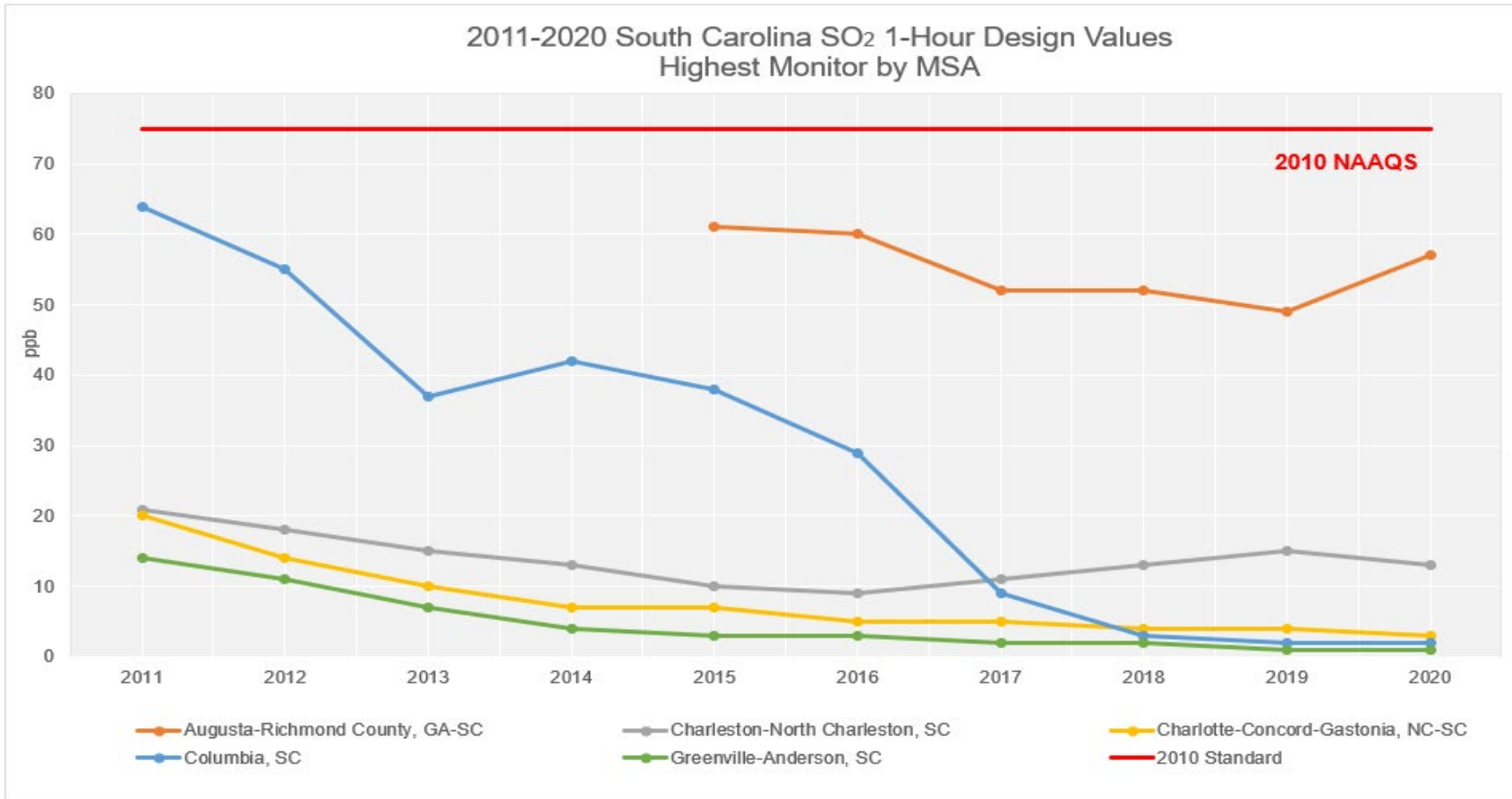
# PM<sub>2.5</sub> 24-Hour Design Values



# PM<sub>2.5</sub> Annual Design Values



# SO<sub>2</sub> 1-Hour Design Values





# Regulatory Updates

- 2020 End of Year Revisions: Notice of Drafting
- Annual incorporation of revisions to federal regulations into SC Regulation 61 -62
  - R.61-62.60, NSPS: federal revisions
  - R.61-62.63, NESHAP: federal revisions, including reclassification of major sources to area sources
  - R.61-62.5, Standards No. 7 and No. 7.1, PSD and NSR: incorporate clarification of Project Emissions Accounting and corrections to the regulations
  - R.61-62.70, Title V Operating Permit Program: revisions to public petition provisions
  - Public comments due April 26, 2021
- No legislative review

# SIP & Regulatory Updates

- Regional Haze State Implementation Plan (SIP), Round 2
  - Draft SIP in development
  - Next steps: consultation with Federal Land Managers and public notice
  - SIP due July 30, 2021
- Affordable Clean Energy Rule (ACE)
  - U.S. Court of Appeals, D.C. Circuit vacated ACE in January, mandate issued on March 5, 2021
  - State ACE regulation, R.61-62.60, Subpart UUUUa will be removed from state regulation; public notice on April 23, 2021



# Annual Ambient Air Monitoring Network Plan

- 40 CFR 58, Appendix E, Ambient Air Quality Surveillance
  - Documentation of the establishment and maintenance of monitoring network
- Publish draft plan April 23, 2021; 30 -day public comment period ending May 24, 2021
- Plan due to EPA July 1, 2021

# Permitting Update/Reminders

- New construction permit applications forms
  - [https://scdhec.gov/sites/default/files/Library/D\\_2566.docx](https://scdhec.gov/sites/default/files/Library/D_2566.docx)
  - Transition period: new forms required after May 28, 2021
- Reminder to submit hardcopy applications with wet signature and PE stamp
  - Most staff returned to office March 15, 2021
  - Hard copies required starting May 3, 2021

# ePermitting (Air Permits & Compliance)

- Developed started in November 2020
- Ahead of schedule
- Expecting to “go live” internally in late 2021

# Ethylene Oxide ( EtO)

- Latest EPA National Air Toxics Assessment (NATA) identified North Charleston as a possible hotspot for EtO
- Other states were finding very high background levels of EtO
- Began sampling across South Carolina in Fall 2019
- Community Engagement (stakeholder and community meetings in North Charleston)
- South Carolina NATA & EtO webpage:
  - <https://scdhec.gov/environment/air-quality/national-air-toxics-assessment-and-ethylene-oxide>



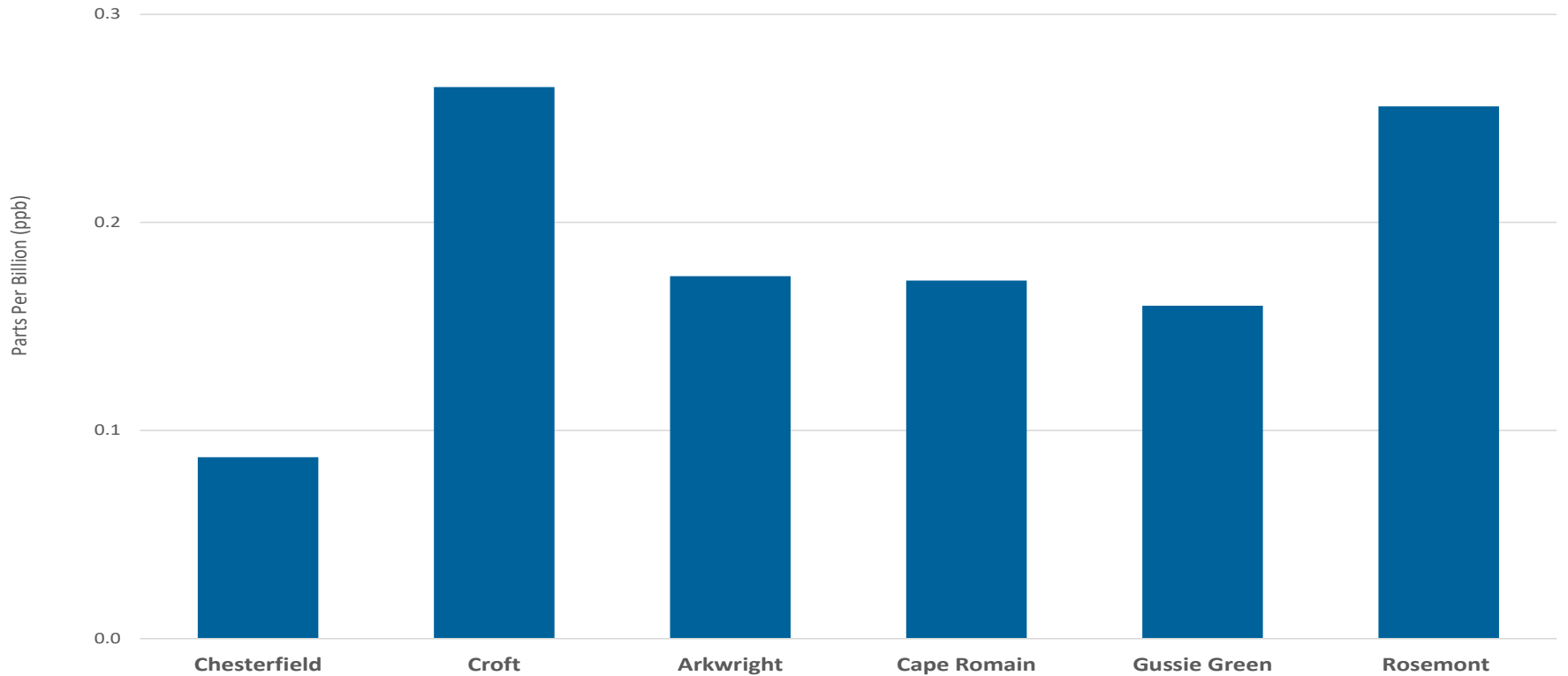
## Ethylene Oxide ( EtO ) 24-hr Sampling Locations

Sampling Date	County/City	Location	Site Description
October 2019 – December 2020	Chesterfield	National Air Toxics Trend Site (NATTS)	Rural Site
October 2019 – January 2021	Charleston	Cape Romain (Class I Area)	Background Site
November 2019 – January 2021	Spartanburg	Croft Fire Station	Industrial area (multiple EtO emitting sources)
November 2019 – January 2021	Spartanburg	Arkwright/ ReGenesis Community	Community near multiple EtO emitting sources
November 2019 – January 2021	North Charleston	Gussie Green Community Center	Community near EtO source (across Interstate)
November 2019 – January 2021	North Charleston	Rosemont Park	Community near EtO source



### Average Ethylene Oxide Concentrations

October 2019 - January 2021



# On-going EPA Research

- EtO is a very difficult pollutant to measure
- EPA working to improve methodology to allow measurement of EtO at lower levels
- Certain other pollutants can look like EtO during the lab analysis
- Some canisters may have caused some results to be biased high/low – data being flagged
- February 2021 guidance for preventing canister leaks

# Ethylene Oxide ( EtO) Background Levels

- *EPA's Work to Understand Background Levels of Ethylene Oxide*(information sheet)
  - <https://www.epa.gov/hazardous-air-pollutants-ethylene-oxide/epas-work-understand-background-levels-ethylene-oxide>



# Community -Scale Air Toxics Monitoring Competitive Grants

- SC DHEC awarded \$261,128
  - Weekly EtO sampling in North Charleston
- Objectives:
  - share information/community engagement
  - use data to assist with EPA's EtO research
- Award began in January 2021
  - develop sampling plan, hire temporary staff person
  - begin sampling for EtO in third quarter (1 year of sampling)
  - 4-5 sampling locations: background, community, mobile/traffic area

## Projects Funded through 2020 State DERA Grant Funds

1. Haig Point Club & Community Association (Hilton Head Island, Beaufort County) - Awarded **\$139,308** to help repower a ferry with new diesel engines

2. Palmetto Propane, Fuels and Ice, Inc. (Batesburg, Lexington County) - Awarded **\$66,104** to help replace two diesel tanker trucks with new trucks that will run on propane fuel

3. Berkeley County School District (Moncks Corner, Berkeley County) - Awarded **\$40,534** to help replace a diesel bucket truck

4. Green Energy Biofuel (Winnsboro, Fairfield County) - Awarded **\$39,625** to help replace one diesel service truck and one diesel vacuum truck





# 2021 State Diesel Emissions Reductions Act (DERA) Grants

- 2021 Expected Funding: \$346,382
- [https://scdhec.gov/environment/businesses - communities -go-green/environmental -loans-grants -businesses -communities/south](https://scdhec.gov/environment/businesses-communities-go-green/environmental-loans-grants-businesses-communities/south)

# COVID-19 Vaccines: Age 16+

## ALL SOUTH CAROLINIANS 16+ ARE ELIGIBLE FOR COVID-19 VACCINES



### You can make an appointment by:

- Visiting [scdhec.gov/vaxlocator](https://scdhec.gov/vaxlocator) to see the locations accepting appointments for COVID-19 vaccine. Pick a location and contact the provider to make an appointment.
- Calling DHEC's COVID-19 Vaccine Info Line at **1-866-365-8110** for help finding contact information to make an appointment.

Learn more at [scdhec.gov/vaxfacts](https://scdhec.gov/vaxfacts).





# Contact Information

- Rhonda B. Thompson, P.E.
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