



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4020
1-800-592-5482

October 24, 2017

Ozone Advance
c/o Laura Bunte, Mail Code C304-01
109 TW Alexander Drive
Research Triangle Park, NC 27711

Reference: Ozone Advance Action Plan –
Caroline County 2017 Annual
Report

Dear Ms. Bunte,

The purpose of this letter is to transmit the annual report for the Caroline County Ozone Advance Action Plan. This annual report is due to your office by October 31 of each year, as mutually agreed upon by U.S. Environmental Protection Agency (EPA) and Virginia Department of Environmental Quality (VDEQ) staff.

The annual report follows the reporting structure included in Appendix D of the Action Plan. Several documents and spreadsheets providing additional information are included with this letter in electronic format, and a table of contents with a description of these documents is attached for your convenience.

The 2017 report continues to show reductions in emission across the Commonwealth. For example, between 2011 and 2015, nitrogen oxides (NO_x) and sulfur dioxide (SO₂) emissions from point sources have decreased 31% and 57%, respectively. These types of efforts have helped improve air quality across Virginia such that preliminary data for the summer of 2017 showed only four exceedance days of the 2015 ozone National Ambient Air Quality Standard (NAAQS). Ozone concentrations in Caroline County and the Fredericksburg area are significantly below the 2015 ozone NAAQS of 0.070 ppm (70 ppb).

VDEQ expects more reductions in the future, which will help to further improve air quality. While not an exhaustive list, several notable programs that will reduce future emissions in the Commonwealth include the following:

- The Tier 3 program for cars and light duty trucks require vehicles in model year 2017 and newer to emit much less NO_x than in past years. This program is especially important since the mobile sector accounts for a significant portion of Virginia's NO_x emissions inventory.
- VDEQ's permit-by-rule program for renewable energy sources and Dominion's 2017 Integrated Resource Plan both reflect a sustained interest in the installation of solar energy facilities within Virginia due to lower costs associated with such operations as well as other factors.
- Reasonably available control technology determinations for major stationary sources in the Ozone Transport Region will reduce emissions from three large Northern Virginia facilities in the 2020 timeframe.

If you have any questions on the information in this report or the information provided electronically, please do not hesitate to call me or Doris McLeod at 804-698-4197.

Sincerely,



Thomas R. Ballou
Director, Air Data Analysis and Planning

Enclosures:

Caroline County Ozone Advance Action Plan Annual Report
Table of Contents
Data disk