

## **Transportation Performance Measure 3: On-road mobile source emissions reduction**

The figures below display both baseline conditions and 2 and 4-year targets for on-road mobile source emissions stemming from CMAQ projects. Data here are broken up between Cecil County and New Castle County and are presented for NO<sub>x</sub>, VOCs, and PM<sub>2.5</sub>. We do not present PM<sub>2.5</sub> data for Cecil County based on guidance from the FHWA.

In Cecil County, we adopt MDOT's baseline measure, but elect to set our own 2 and 4-year emissions targets. The baseline figure is based on summed emissions reductions from Cecil County's CMAQ projects from 2014 through 2017 placed in the FHWA CMAQ Public Access System database. MDOT's targets are based on these previously-funded CMAQ projects, several roundabouts.

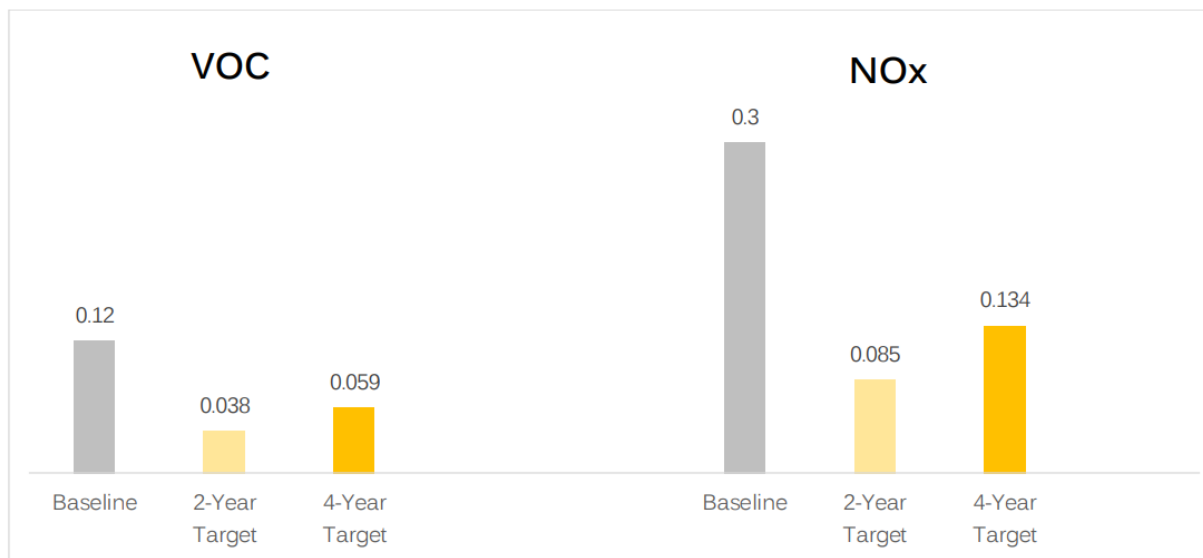
WILMAPCO proposes targets based on ten cost-beneficial bicycle and pedestrian projects listed in various Cecil County and municipal priority letters. Using the Atlanta Regional Commission's CMAQ calculator, WILMAPCO determined the median emissions benefits for these projects for the years 2018 and 2020. We extrapolated benefits for the year 2022, based on those figures. The 2020 results became the 2-year target. The sum of the 2020 results and the 2022 results became the 4-year target.

In New Castle County, we adopt the emissions targets set by DelDOT for the State of Delaware. These are presented on the following page.

DelDOT's methodology for developing these targets for VOC and NO<sub>x</sub> emissions is described in their "Performance Management 3" submission to FHWA in May 2018. First, a listing of potential CMAQ projects through 2021 was compiled. Next, projects which could, quantitatively, have their emissions reductions estimated were identified. These projects were run through a DelDOT Planning emission reduction spreadsheet tool. Estimates for emissions reductions were developed for each year, by project, between the years 2017 and 2021. The sum of emissions reductions for all projects for the years 2018 and 2019 became the 2-year target. The sum of emission reductions for all projects between the years 2018 and 2021 became the 4-year target. DelDOT also provided WILMAPCO with estimates for PM<sub>2.5</sub> emission reductions that we include here.

WILMAPCO sets the baseline figures for VOC, NO<sub>x</sub>, and PM<sub>2.5</sub> reductions based on the potential reductions for all Delaware statewide projects in year 2017 provided by DelDOT. Historic CMAQ emissions benefit data were unavailable.

**CMAQ ON-ROAD MOBILE SOURCE EMISSION REDUCTIONS  
IN CECIL COUNTY, MD (KG/DAY)**



**CMAQ ON-ROAD MOBILE SOURCE EMISSION REDUCTIONS  
IN DELAWARE (KG/DAY)**

