

VISUALIZE 2050

National Capital Region Transportation Plan

Agenda Item 8

ACTION ON AIR QUALITY CONFORMITY SCOPE OF WORK INCLUDING THE PROJECT INPUTS TABLE

Visualize 2050 & FY 2026-2029 TIP

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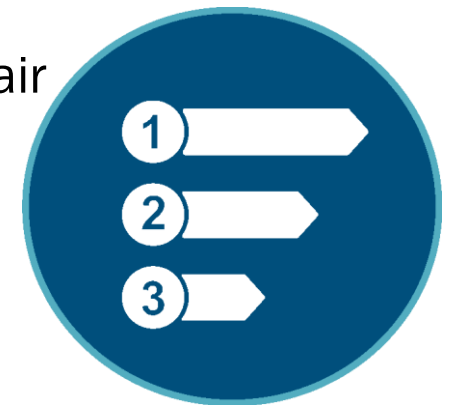
Transportation Planning Board
May 15, 2024



National Capital Region
Transportation Planning Board

A Better Plan for the Future

- Substantial engagement from all TPB member agencies and the public
- Proposed
 - revised mix of projects to better support TPB priority strategies to achieve TPB goals
 - changes to proposed expansion of Express lanes network, changes to roadway projects (repurposing lanes, no widening), more active transportation projects
 - continuation of many active or still worthwhile investments
- Continued commitment to maintaining the system in a state of good repair
- Continued commitment to managing future growth to support Regional Activity Centers and High-Capacity Transit station areas



Today's Action

- Approving proposed mix of highway and transit projects to be included in a
 - Regional air quality conformity analysis (federally required)
 - Regional transportation system performance analysis (TPB required)
- Approving the tolls and other assumptions for conducting the analysis (scope of work)
 - Forecasts of future population, employment, households
 - Travel demand and emission analysis models
 - Years of analysis, non-transportation inputs to the models
 - Roadway and transit operating parameters

Supplementary Information

- Two letters from VDOT on the Southside Express Lanes
- One letter from MDOT
 - Requesting removal of an I-495 express lanes study from the Air Quality Conformity Network Input Table
 - Providing information about the American Legion Bridge Plus I-270 Program

Supplementary Information

- Changes since March 2024 draft Pink – response to comments/technical corrections
- Changes relative to Visualize 2045 Blue – strikethrough, not continuing
Yellow – updates, new projects/segments

	PIT Project ID	Con ID	Project ID	Agency ID	Improvement	Facility	From	To	Fr	To	Lanes From	Lanes To	Completion Date
412	CE3331-T6618	653	VP2P	111666	Construct	VA 7 Interchange	At VA 690		2	2	0	4	2025-2027
413	CE3733		VP2JB		Widen	VA 7	VA 9	West Market St.	2	5	5	6	2030
414	CE1870	86	VP2JA	16006	Widen	VA 7 Bypass	VA 7 – West Dulles Greenway	US 15 South King Street South VA7/US15 interchange	5	1	4	6	2040
415	CE1870	299	VP2J	16006	Widen	VA 7 Bypass	US 15 South King Street	VA7/US 15 East	5	4 5	4	6	2040 2030
416	CE2105-T6539	221	VP2M		Widen	VA 7	Reston Avenue	Jarrett Valley Dr.	2	2	4	6	2024 completed
417	CE2105	628	VP2Lb		Widen	VA 7 Leesburg Pike	VA 123 Chain Bridge Road	I-495 Capital Beltway	2	2	6	8	2030-2035
418	CE3161	87	VP2N		Widen	VA 7 Leesburg Pike	I-495	I-66	2	2	4	6	2030
419	CE2175	347	VP2B	TBD	Widen	VA 7	Seven Corners	Bailey's Crossroads	2	2	4	6	2030-2040
420	CE3792	36461			Construct	VA 7 Seven Corners Ring Road	West side of interchange on Route 50	East side of interchange on Route 50			0	4	2045
421	CE3162		VP4EA		Widen	US 15 James Madison Highway Overpass	US29 Lee Highway	Haymarket Dr.	2	2	2	4	2040



April 3, 2024

AIR QUALITY CONFORMITY ANALYSIS:
VISUALIZE 2050 & FY 2026-2029 TIP

DRAFT SCOPE OF WORK

I. INTRODUCTION

The list of projects solicited for the Visualize 2050 National Capital Region Transportation Plan and the FY 2026-2029 Transportation Improvement Program (TIP) is scheduled to be finalized at the May 15, 2024 meeting of the National Capital Region Transportation Planning Board (TPB). This work effort addresses requirements associated with attainment of the ozone National Ambient Air Quality Standards (NAAQS). Volatile organic compounds (VOC) and nitrogen oxides (NOx) are ozone precursor pollutants.

The amended plan must meet air quality conformity regulations: (1) as originally published by the Environmental Protection Agency (EPA) in the November 24, 1993 Federal Register, and (2) as subsequently amended, most recently on March 14, 2012, and (3) as detailed in periodic Federal Highway Administration (FHWA) / Federal Transit Administration (FTA) and EPA guidance. These regulations specify both technical criteria and consultation procedures to follow in performing the assessment.

This scope of work provides a context in which to perform the conformity analyses and presents an outline of the work tasks required to address all regulations currently applicable.

II. FEDERAL REQUIREMENTS

As described in the 1990 Clean Air Act Amendments, conformity is demonstrated if transportation plans and programs:

1. Are consistent with most recent estimates of mobile source emissions budgets
2. Contribute to annual emissions reductions

A-1

Updates to Air Quality Conformity Scope of Work

- No additional changes since the version provided at the April TPB meeting

Pollutants	Ozone Season VOC and NOx
Emissions Model	MOVES4
Conformity Test	Budget Test: Using EPA approved mobile emissions budgets from the 2008 Ozone NAAQS Maintenance Plan
Vehicle Fleet Data	December 2023 vehicle registration data
Geography	8-hour ozone non-attainment area
Network Inputs	Regionally significant projects
Land Activity	Cooperative Forecasts Round 10
HOV/HOT	VA: I-66, I-95, I-395, and I-495 are all HOT3+; all HOV facilities will be HOV2+ through 2050 MD: HOV facility on US 50 will remain HOV2+ through 2050; HOV facility on I-270 will convert from HOV2+ to HOT3+ when additional lanes are added;
Roadway Restrictions	Roadway restrictions, such as truck prohibitions, are reflected in the travel model network using information supplied by the Departments of Transportation
Transit Constraint	No Metrorail "capacity constraint" (removed with March 2018 passage of annual funding for WMATA agreement)
Analysis Years	2025, 2026, 2030, 2040, 2045, and 2050
Modeled Area	6,800 square mile area with 3,722 Transportation Analysis Zones (TAZs)
Travel Demand Model	Gen2/Version 2.4 or latest

Next Steps

- May TPB action on Resolution R12-2024 on the Air Quality Conformity Scope of Work and Project Inputs; TPB staff begin performance and air quality analysis of Visualize 2050 and the FY 2026-2029 TIP
- June-March 2025 Conduct Air Quality Conformity and System Performance Analysis
- Summer 2024 TPB staff work with TPB member agencies on other projects, programs not significant for air quality conformity analysis
- Fall 2024 Finalize the complete financial plan for Visualize 2050 (including Operations, Maintenance/State of Good Repair)
- April 2025 TPB review analysis results and draft plan; Public review and comment
- June 2025 TPB approves air quality conformity analysis, adopts Visualize 2050 and FY26-29 TIP

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