

NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD

Item 10

2014

Financially Constrained Long-Range Transportation Plan

For the National Capital Region

AIR QUALITY CONFORMITY ANALYSIS OF THE 2014 CLRP AND FY 2015-2020 TIP

Presentation to the Transportation Planning Board September 17, 2014

Air Quality Conformity 2014 CLRP and FY2015-2020 TIP **Pollutants**

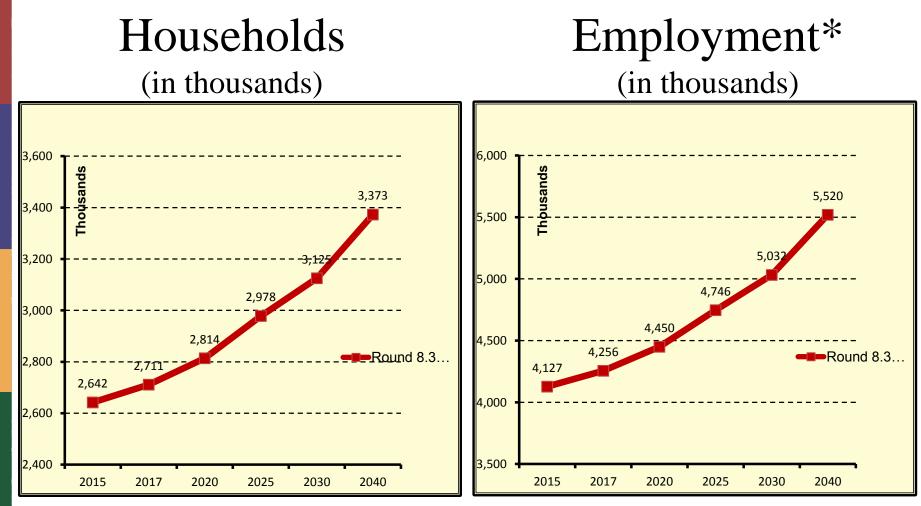
- Volatile Organic Compounds (VOC)
- Nitrogen Oxides (NOx)
- Direct Fine Particles (PM_{2.5})
- PM_{2.5} Precursor NOx
- Wintertime Carbon Monoxide (CO)

Air Quality Conformity 2014 CLRP and FY2015-2020 TIP Technical Approach

Key Technical Inputs and Tools:

- Round 8.3 Cooperative Forecasts NEW
- "Regionally Significant" Transportation Projects UPDATED
- Version 2.3.57 Travel Demand Model UPDATED
- ✤ 2011 Vehicle Registration Data (VIN)
- EPA's MOVES 2010a Emissions Model
- MOVES Inputs: Fuel Supply and Formulation, Meteorology, and Inspection & Maintenance (I/M) Program Data - UPDATED

Air Quality Conformity 2014 CLRP and FY2015-2020 TIP Round 8.3 Cooperative Forecasts



NOTE: Values are for the modeled area.

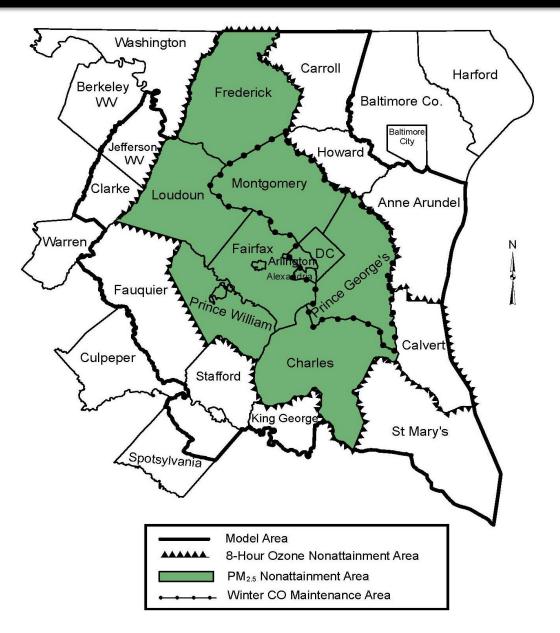
*Includes census adjustment

Air Quality Conformity 2014 CLRP and FY2015-2020 TIP Technical Approach

Analysis Years:

2015, 2017, 2025, 2030, 2040

TPB Transportation Planning Area and Washington, DC-MD-VA Nonattainment & Maintenance Areas

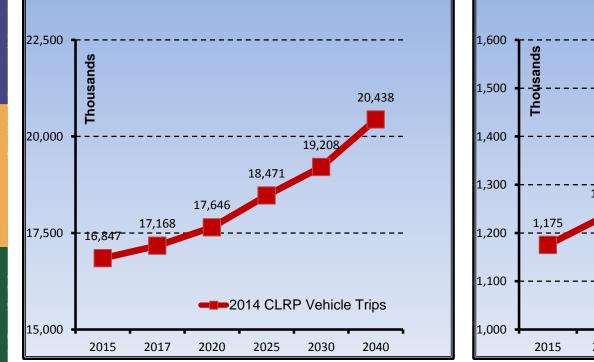


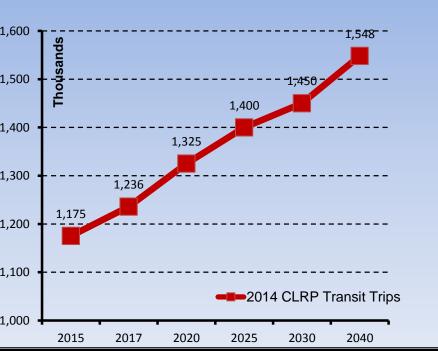
Air Quality Conformity 2014 CLRP and FY2015-2020 TIP Travel Demand Summary

Average Weekday Traffic Modeled Area

Vehicle Trips (in thousands)

Transit Trips (in thousands)



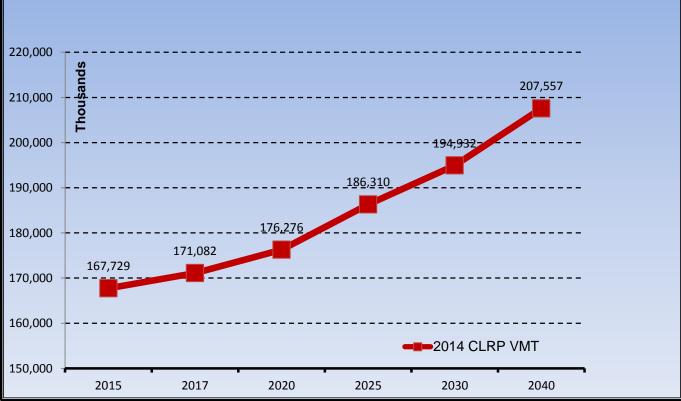


Air Quality Conformity 2014 CLRP and FY2015-2020 TIP Travel Demand Summary

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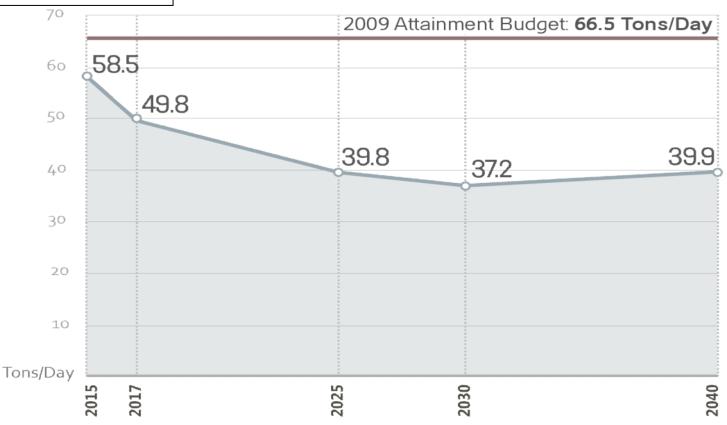
Vehicle Miles Traveled

(in thousands)



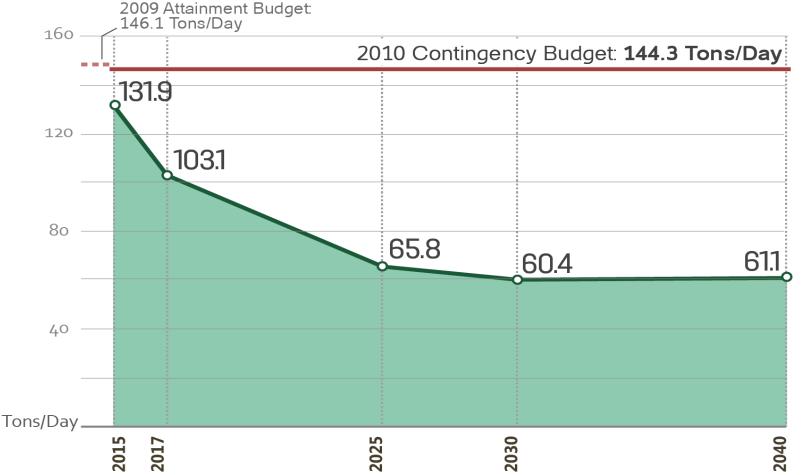
NOTE: The Mobile Budgets shown were developed in 2007, as part of the 8-Hour Ozone SIP, in response to the 1997 Ozone Standard. These budgets, as the most current approved by EPA, are required for use in any conformity analysis assessing ozone season pollutants.

Ozone Season VOC



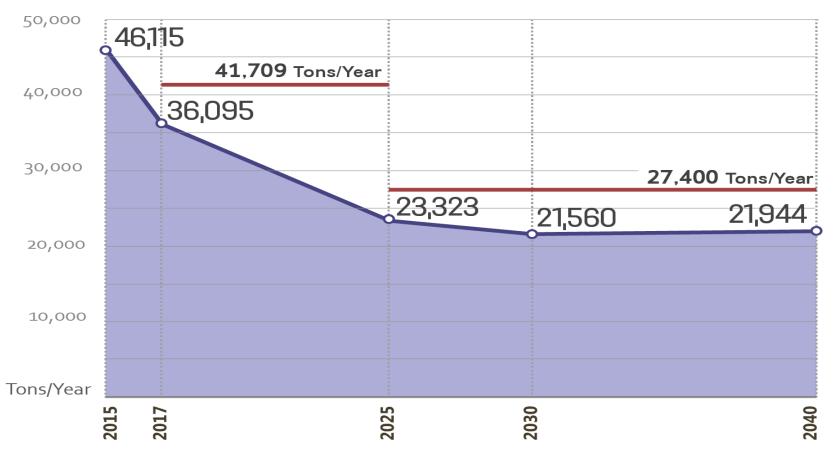
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Ozone Season NOx

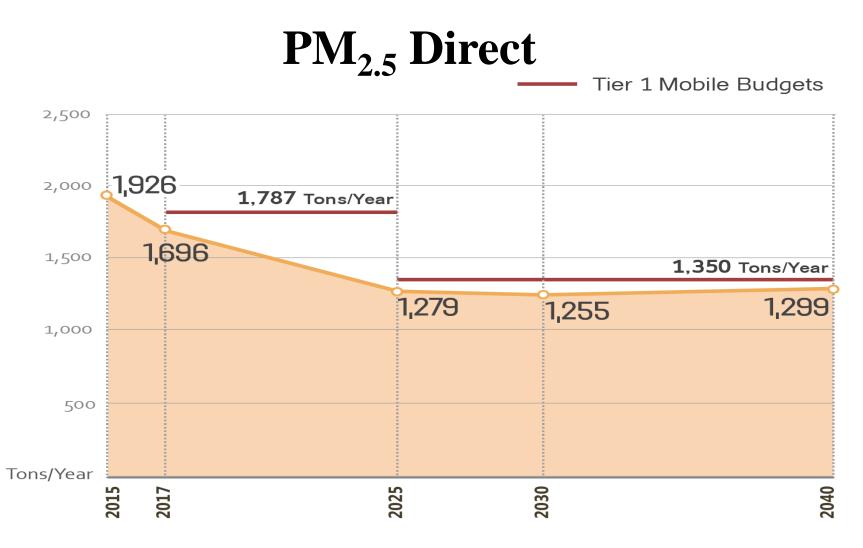


PM_{2.5} Precursor NOx

Tier 1 Mobile Budgets

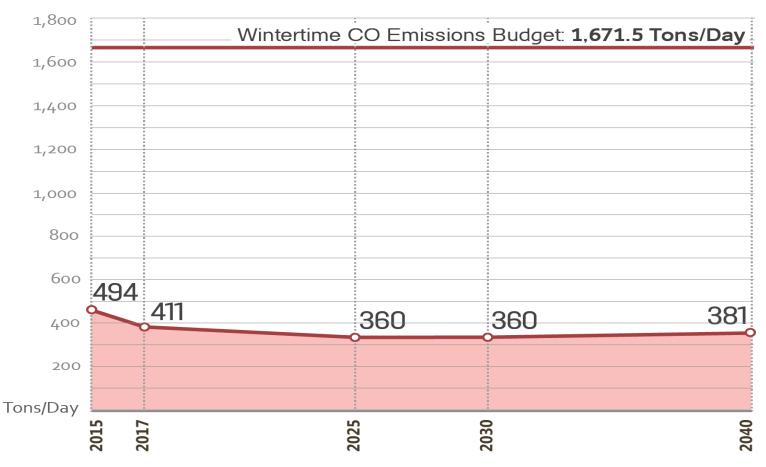


TCMs and TERMS are not included in totals.



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Wintertime CO



Air Quality Conformity 2014 CLRP and FY2015-2020 TIP Transportation Emission Reduction Measures (TERMs)

REGIONAL EMISSIONS REDUCTIONS- ALL TERMS COMBINED

Years/Pollutants	Ozone - VOC	Ozone - NOx	PM2.5 Direct	Precursor NOx	Winter CO
	(tons/day)	(tons/day)	(tons/year)	(tons/year)	(tons/day)
2015	0.06	0.10	1.11	26.72	1.07
2017	0.07	0.10	1.42	27.53	1.30
2025	0.10	0.11	2.32	30.43	2.14
2030	0.12	0.13	2.99	34.63	2.74
2040	0.19	0.19	4.56	49.88	4.23

NOTE: Benefits from these TERMs are not included in the emissions totals in this conformity analysis.

Air Quality Conformity 2014 CLRP and FY2015-2020 TIP Schedule

*October 15, 2014	Public Comment Period Ends TPB Reviews Public Comments and Responses to Comments, and is Presented the Draft CLRP & TIP and Conformity Analysis for Adoption		
October 11, 2014			
September 9, 2014TPB Staff Briefs MWAQC TAC on the Draft CLRP & TIP and Conf Analysis			
*September 17, 2014	TPB Briefed on the Draft CLRP & TIP and Conformity Analysis		
September 11, 2014	Draft CLRP & TIP and Conformity Analysis Released for Public Comment at Citizens Advisory Committee (CAC)		
September 5, 2014	Technical Committee Reviews Draft CLRP & TIP and Conformity Analysis		
June 6, 2014	<u>DEADLINE</u> : Transportation Agencies Finalize Congestion Management Documentation Forms (where needed) and CLRP & TIP Forms. (Submissions must not impact conformity inputs; note that the deadline for changes affecting conformity inputs was April 16, 2014).		
*April 16, 2014	TPB Reviews Public Comments and is asked to Approve Project Submissions and Draft Scope of Work		
April 12, 2014	Public Comment Period Ends		
April 8, 2014	TPB Staff Briefs MWAQC TAC on Project Submissions and Scope of Work		
*March 19, 2014	TPB is Briefed on Project Submissions and Draft Scope of Work		
March 13, 2014	CLRP & TIP Project Submissions and Draft Scope of Work Released for Public Comment		
March 7, 2014	Technical Committee Reviews Draft CLRP & TIP Project Submissions and Draft Scope of Work for the Air Quality Conformity Analysis		
December 13, 2013	DEADLINE: Transportation Agencies Complete On-Line Submission of Draft Project Inputs.		
*November 20, 2013	TPB Releases Final Call for Projects - Transportation Agencies Begin Submitting Project Information through On-Line Database		
*October 16, 2013	TPB is Briefed on Draft Call for Projects		

Air Quality Conformity 2014 CLRP and FY2015-2020 TIP

QUESTIONS?