## AIR QUALITY CONFORMITY ANALYSIS OF THE 2013 CONSTRAINED LONG RANGE PLAN & FY2013-2018 TRANSPORTATION IMPROVEMENT PROGRAM

September 20, 2013 TRAVEL FORECASTING SUBCOMMITTEE

# Technical Approach

2012	<b>CLRP</b>
------	-------------

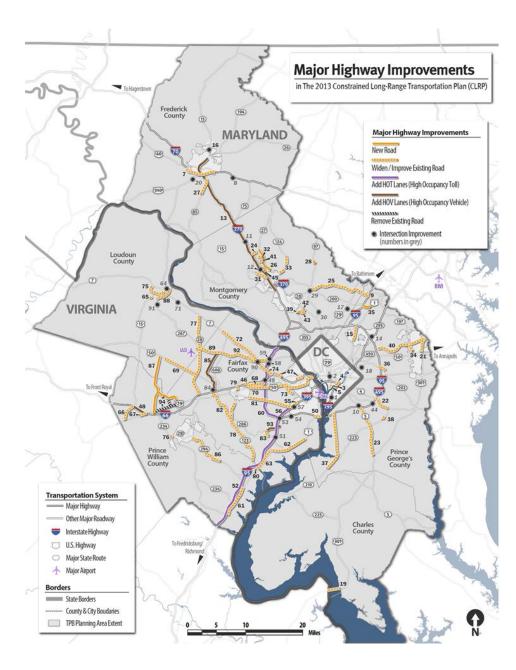
## **2013 CLRP**

Land Activity:	Round 8.1 Cooperative Forecasts	Round 8.2 Cooperative Forecasts
Modeled Area:	$3722 \mathrm{TAZ}$	$3722 \mathrm{ TAZ}$
Travel Demand Model:	Version 2.3.39	Version 2.3.52
Mobile Model:	Mobile6.2	MOVES2010a
Vehicle Registration Data:	2011 VIN	2011 VIN
Analysis Years:	2015, 2017, 2020, 2030, 2040	2015, 2017, 2020, 2025, 2030, 2040

## 2013 CONSTRAINED LONG RANGE PLAN

Major Highway Improvements

Map and project listing available here: https://www.mwcog.org/clrp/projects/highway.asp



## 2013 CLRP Major Highway Projects

#### **District of Columbia**

- 1. I-295, reconstruct interchange at Malcolm X Blvd, 2014
- 2. I-395, remove 3rd St SB exit ramp, reconfigure 3rd St SB entrance and 2nd St NB exit ramps, reconnect F St bet. 2nd and 3rd St, 2013, 2014
- 3. 11th Street Bridge reconstruction, 2013
- 4. Southest Boulevard, downgrade and construct urban boulevard, 2015
- South Capitol Str/Bridge Reconstruction, including intersection with Martin Luther King Jr. Blvd, 2015
- 6. Lane Reductions/Reconfigurations (not mapped):
- a. New Jersey Ave.NW reconstruct to 2-way traffic, 2015
- b. H St. NW and I St. NW peak period bus-only lanes, 2014
- c. East Capitol St. reduce to 4 lanes, 2015
- d. South Capitol St. reduce to 4 lanes, 2015
- e. 17th St. NE/NW reduce to 1 lane, 2013
- f. C St. NE reduce to 2 lanes, 2013
- g. M St. NW Bike Lane remove 1 travel lane

#### Maryland

- 7. I-70, widen to 6 lanes, 2020
- 8. I-70, interchange at Meadow Rd, 2020
- 9. I-95, interchange and CD lanes at Contee Road, 2016
- 10. I-95/495: Branch Avenue Metro access improvements, construct 8 lanes, 2020
- 11. I-270, reconstruct interchange at MD 121, 2016
- 12. I-270, interchange at Watkins Mill Rd. Ext., 2016
- 13. I-270/US 15 Corridor, I-70 to Biggs Ford Rd, highway improvements, 2030
- 14. Baltimore Washington Parkway at MD 193, Intersection Improvement, 2025
- 15. US 1, widen to 6 lanes, 2010, reconstruct 4 lanes, 2010, 2020
- 16. US 15, reconstruct at Monocacy Blvd, 2016
- 17. US 29 at Musgrove/Fairland Rd, 2025
- 18. US 50, westbound ramp to Columbia Park Road, 2025
- 19. US 301 From Charles County, MD to King George County, VA, 2030
- 20. US 340/US 15, interchange at Jefferson Tech Park, 2016
- 21. MD 3, widen to 6 lanes, 2030
- MD 4, widen to 6 lanes, upgrade with interchanges at Westphalia Road and Suitland Parkway, 2016, 2020, 2035
- 23. MD 5, upgrade, widen to 6 lanes, including interchanges, 2016, 2025
- 24. MD 27, widen to 6 lanes, 2020
- 25. MD 28/MD 198, widen to 4, 6 lanes, 2025
- 26. M-83, construct 4, 6 lanes, 2020
- 27. MD 85, widen to 4, 6 lanes, 2020
- 28. MD 97, construct 2 lanes, 2020
- 29. MD 97, upgrade intersection at MD 28, 2030
- 30. MD 97, upgrade intersection at Randolph Road, 2015
- 31. MD 117, widen to 4 lanes, 2025
- 32. MD 118 (Germantown Rd.), widen to 4 lanes, 2020
- 33. MD 124, widen to 6 lanes, 2020
- 34. MD 197, widen to 4/5 lanes, 2025
- $35.\,$  MD 200, Intercounty Connector (ICC) Between I95 and Baltimore Ave. (US 1), 2014
- 36. MD 202, reconstruct 6 lanes, 2020
- 37. MD 210, upgrade 6 lanes and interchange improvement, 2020, 2030
- $38.\ \mathrm{MD}$  223, widen to 4 lanes, 2020
- 39. MD 355, construct 6 lanes, interchange at Montrose/Randolph Road, 2015, 2020
- $40.\ {\rm MD}\ 450,$  widen to 4 lanes, 2016
- 41. Middlebrook Road Extended, widen, construct 4 lanes, 2020
- 42. Montrose Parkway East, construct 4 lanes, 2015
- 43. Randolph Road, widen to 5 lanes, 2014
- 44. Suitland Parkway, interchange at Rena/Forestville Road, 2025
- 45. Watkins Mill Road Extended, construct 6 lanes, 2011

#### Virginia

- 46. I-66, construct HOV ramps to access Vienna Metro Station, 2014
- 47. I-66, construct 2 lanes, 2020
- 48. I-66 HOV, includes interchange reconstruction at US 15, 2016
- 49. I-66/I-495, reconstruct interchange, 2013
- $50.\,$  I-95, construct approaches to Woodrow Wilson Bridge, 2013
- 51. I-95/Fairfax County Parkway, enhanced interchanges for improved access to Fort Belvoir, 2016, 2020
- 52. I-95/395 HOT Lanes, widen, construct 1, 2 additional lanes and bus service, 2015
- 53. I-95/I-395/I-495, interchange access ramps to I-495 HOV, 2013
- 54. I-95/495, reconstruct interchange at VA 613, 2025
- $55.\,$  I-395 Auxiliary Lanes Northbound Duke St. on ramp to Seminary Rd. off ramp, 2015
- 56. I-395 New Lane SB Duke St to Edsall Rd, 2018
- $57.\,$  I-395 HOV lanes reversible ramp at Seminary Rd., 2015
- 58. I-495 HOT lanes interchange 2 interchanges with VA-267 (Dulles toll Rd.) and 1 at the Dulles Airport Access Rd., 2013
- Construct I-495 Interchange Ramp connecting NB I-495 to westbound Dulles Airport Access Highway, 2030 and Widen I-495 Interchange Ramp connecting EB Dulles Toll Road to Northbound I-495, 2030
- 60. I-495 HOT lanes, 2015, 2030
- 61. US 1, widen to 6 lanes, 2025
- 62. US 1, widen to 6 lanes, 2020, 2025
- 63. US-1 from Annapolis Way to Lorton Road widening, 2035
- 64. US 15 Bypass, interchange at Edwards Ferry Road, 2035
- 65. US 15, widen to 4 lanes, 2015
- 66. US 15, widen to 4 lanes, 2040
- 67. US 29, widen to 5, 6 lanes, 2014
- 68. US 29, widen to 6 lanes, 2012, 2013
- 69. US 50, widen to 6 lanes, 2014
- 70. US 50, widen/reconstruct 6 lanes including interchanges, 2013, 2015, 2025
- 71. VA-7, intersection improvements at the intersection of VA-7 and Belmont Ridge Rd., 2017
- 72. VA 7, Leesburg Pike, widen to 6, 8 lanes, 2014, 2015, 2025, 2030
- 73. VA 7, widen to 6 lanes, 2025
- 74. VA-7 from I-495 to I-66 widening, 2021
- 75. VA 7/US 15 Bypass, widen to 6 lanes, 2040
- 76. VA 28, widen to 6 lanes, 2013, 2015, 2018, 2025
- 77. VA 28, widen to 8 lanes with interchanges, 2011, 2015, 2025
- 78. VA 123, widen to 6 lanes, 2025
- 79. VA 123, widen to 6 lanes, 2013
- 80. VA 123, widen to 6 lanes, 2017
- 81. VA 236, widen to 6 lanes, 2025
- 82. VA 286, widen to 6 lanes, 2020
- 83. VA 286, construct 4, 6 lanes with interchanges at Franconia Pkwy. And Boudinot Dr., 2011, 2012, 2013

90. Construct interchange on Dulles Toll Road at Greensboro Dr./Tyco Rd., 2036 and at New

4

- 84. VA 286, interchange at Fair Lakes Parkway, 2013
- 85. VA 286 Fairfax County Parkway HOV, widen and upgrade to 6, 8 lanes, 2013, 2035
- 86. VA 294, widen to 6 lanes, 2014, 2040

Boone Blvd, Extension, 2037

94. Manassas Battlefield Bypass, 2035

NOTE: Projects in **bold** are new to the 2013 CLRP

- 87. VA 411 Tri-County Parkway, construct 4 lanes, 2020
- 88. Battlefield Parkway, construct 4 lanes, 2012
- 89. Dulles Access Road, widen to 6 lanes including interchange reconstruct at I-495, 2017

91. Construct interchange at Dulles Greenway and Hwling Farm Boulevard, 2015

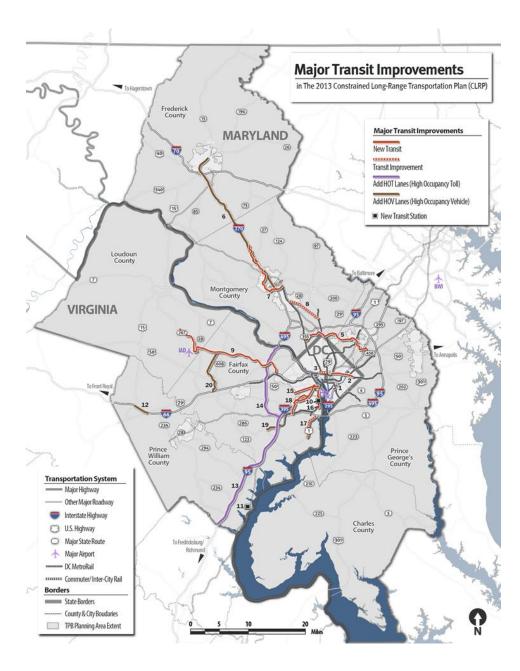
92. DTR Collector-Distributor Roads EB and WB 684 to 828, 2036, 2037

93. Franconia/Springfield Parkway HOV with interchange at Neuman S. 2025

## 2013 CONSTRAINED LONG RANGE PLAN

Major Transit Improvements

Map and project listing available here: https://www.mwcog.org/clrp/projects/highway.asp



## 2013 CLRP Major Transit Projects

#### **District of Columbia**

- 1. Anacostia Street Car Project Phase I, 2014, 2016
- 2. DC Streetcar H St/Benning Rd NE, 2014, 2016
- 3. K Street Transitway, 2015
- 4. Tiger Grant Bus Priority Improvements (not mapped: DC, MD, VA)

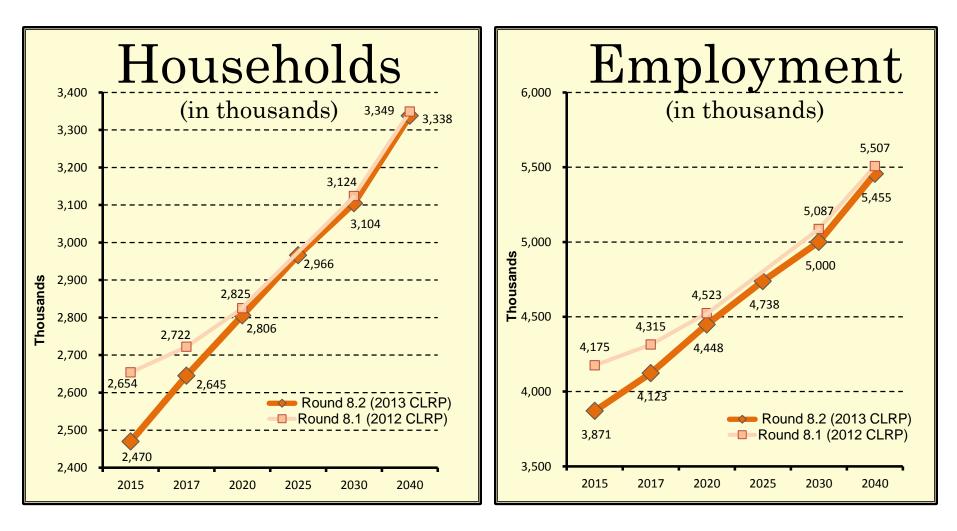
#### Maryland

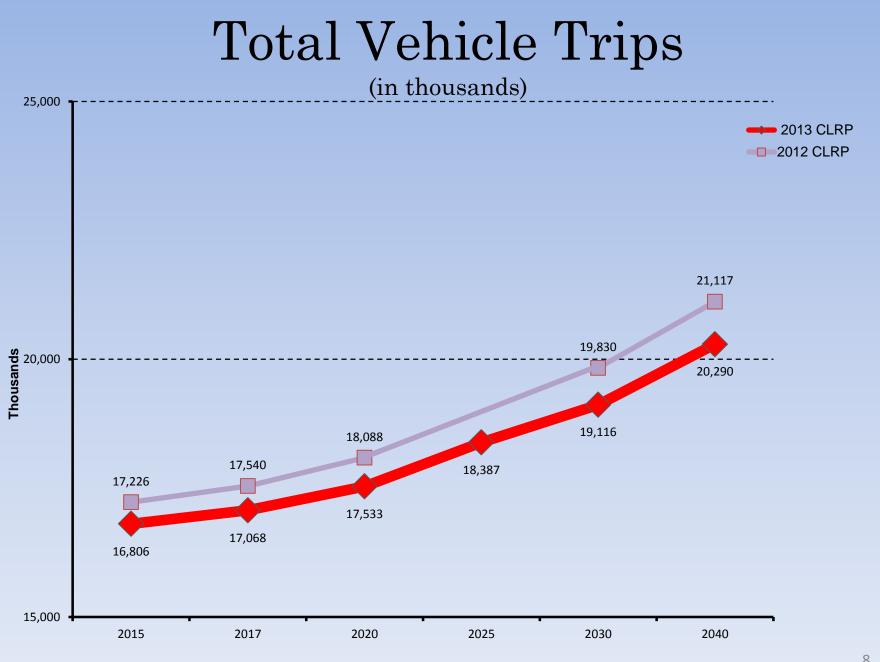
- 5. Purple Line, Bethesda to New Carrollton, 2020
- 6. I-270/US 15 Corridor, Shady Grove to Biggs Ford Rd., widen and HOV, 2030
- 7. Corridor Cities BRT, from Shady Grove to COMSAT, 2020
- 8. MD 586 (Viers Mill Rd.) Busway, from Wheaton Metrorail Station to Rockville Metrorail Station, 2020

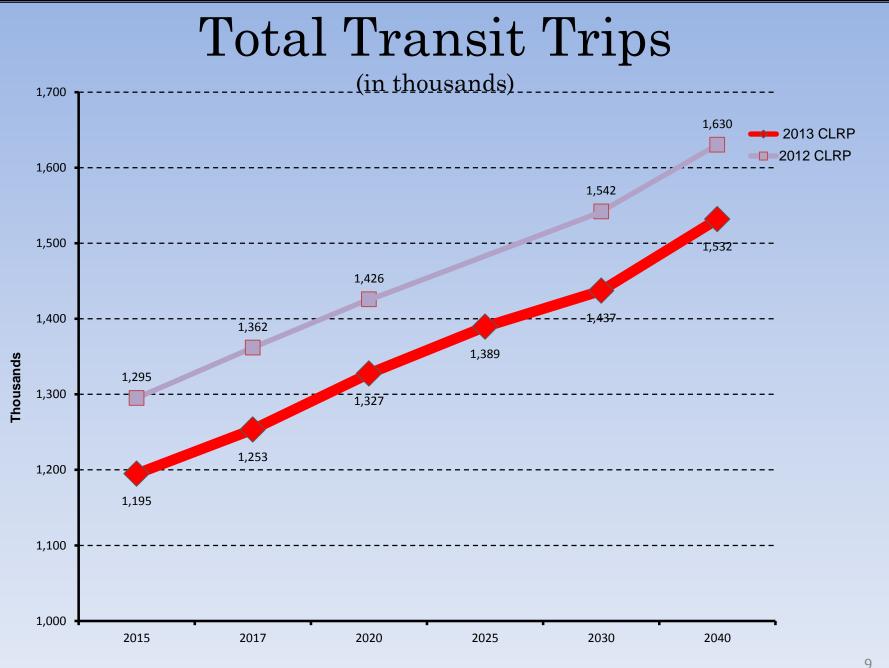
### Virginia

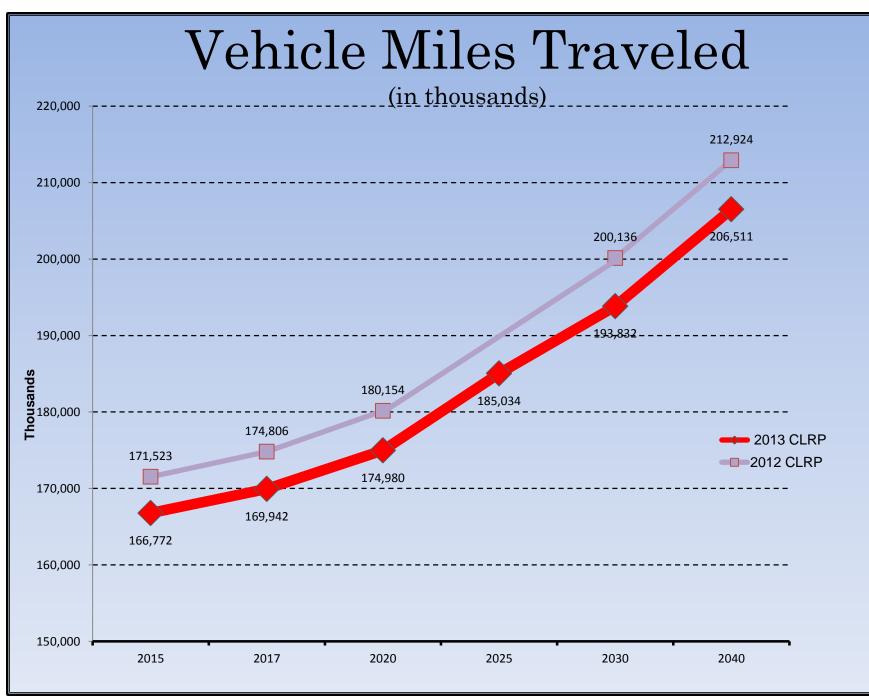
- 9. Dulles Corridor Metrorail, 2013, 2016
- 10. Potomac Yard Metro Station, 2017
- 11. Cherry Hill VRE Station, 2015
- 12. I-66 HOV, includes interchange reconstruction at US 15, 2016
- 13. I-95/395 HOT Lanes, widen, construct 1, 2 additional lanes and bus service, 2015
- 14. I-495 High Occupancy/Toll (HOT) lanes, Transit Service, 2013, 2030
- 15. VA 244 (Columbia Pike) Streetcar from Pentagon City to Skyline, 2017
- 16. Crystal City Potomac Yard Bus Way and US 1 Street Car, 2013, 2019
- $17.\,\mathrm{US}$  1 bus right turn lanes, 2035
- 18. BRT from Van Dorm St. Metrorail station to Pentagon Metrorail station, 2016
- 19. Franconia/Springfield Parkway HOV with interchange at Neuman St., 2025
- 20. VA 286 (VA 7100), Fairfax County Parkway HOV, widen and upgrade to 6, 8 lanes, 2013, 2035

# **Cooperative Forecasts**

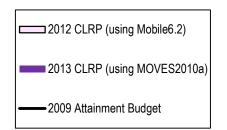


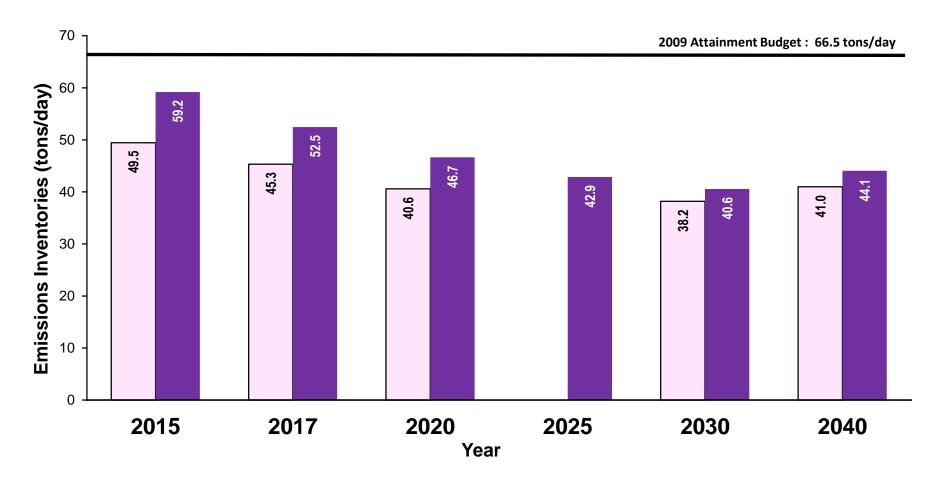


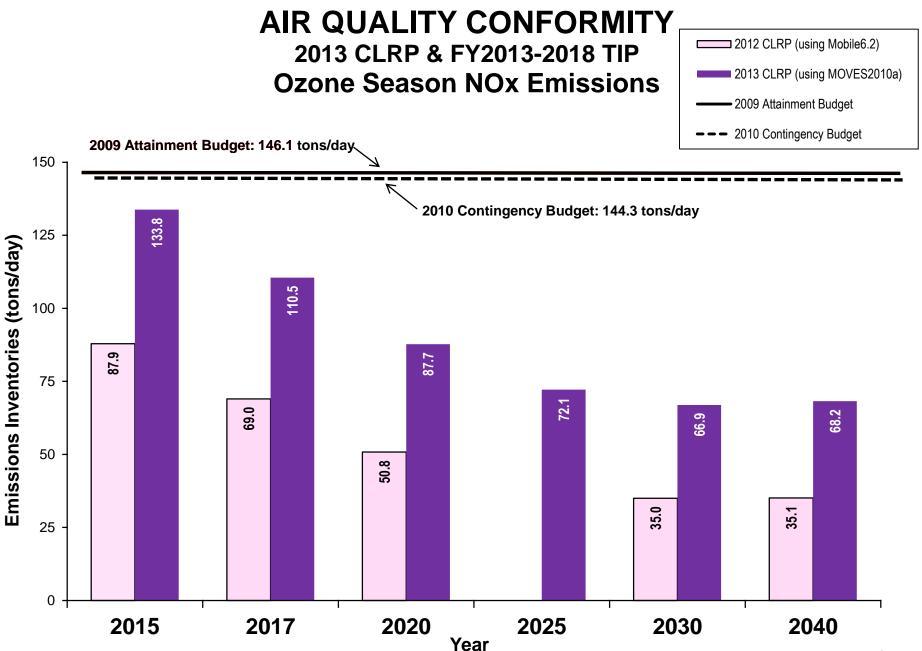


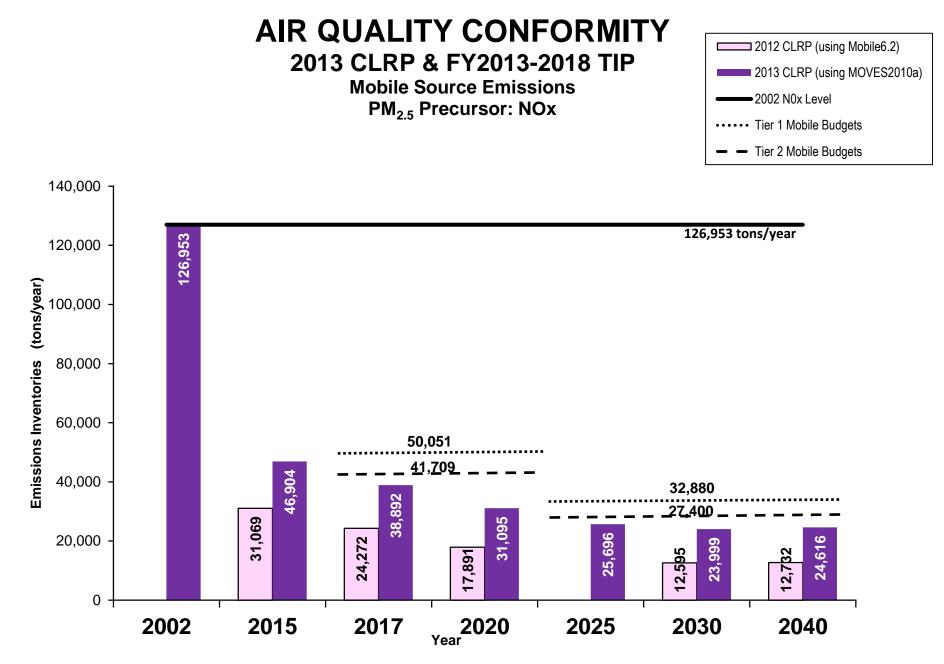


## AIR QUALITY CONFORMITY 2013 CLRP & FY2013-2018 TIP Ozone Season VOC Emissions

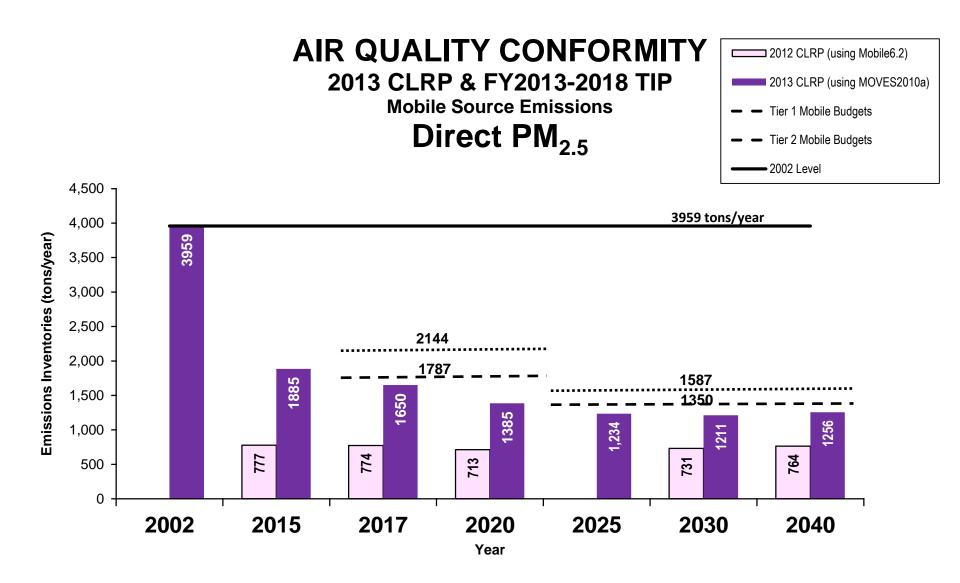








NOTE: MWAQC approved a PM<sub>2.5</sub> Maintenance Plan on 5/22/2013. The Plan contains mobile budgets for years 2017 and 2025, which are shown in this graph for informational purposes only. When they are approved by EPA they will be used for conformity. In the meantime, without approved mobile 13 budgets, it is required that Forecast Year emissions do not exceed Base Year 2002 emissions.



NOTE: MWAQC approved a PM<sub>2.5</sub> Maintenance Plan on 5/22/2013. The Plan contains mobile budgets for years 2017 and 2025, which are shown in this graph for informational purposes only. When they are approved by EPA they will be used for conformity. In the meantime, without approved mobile budgets, it is required that Forecast Year emissions do not exceed Base Year 2002 emissions.



### Schedule for the 2014 Financially Constrained Long-Range Transportation Plan (CLRP) and the FY2015-2020 Transportation Improvement Program (TIP)

*October 16, 2013	TPB is Briefed on Draft Call for Projects
*November 20, 2013	TPB Releases Final Call for Projects - Transportation Agencies Begin Submitting Project Information through On-Line Database
December 13, 2013	DEADLINE: Transportation Agencies Complete On-Line Submission of Draft Project Inputs.
January 10, 2014	Technical Committee Reviews Draft CLRP & TIP Project Submissions and Draft Scope of Work for the Air Quality Conformity Assessment
January 16, 2014	CL RP & TIP Project Submissions and Draft Scope of Work Released for Public Comment
*January 22, 2014	TPB is Briefed on Project Submissions and Draft Scope of Work
February 15, 2014	Public Comment Period Ends
*February 19, 2014	TPB Reviews Public Comments and is asked to Approve Project Submissions and Draft Scope of Work
May 2, 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 February 19, 2014).
June 12, 2014	Draft CLRP & TIP and Conformity Assessment Released for Public Comment at Citizens Advisory Committee (CAC)
*June 18, 2014	TPB Briefed on the Draft CLRP & TIP and Conformity Assessment
July 12, 2014	Public Comment Period Ends
*July 16, 2014	TPB Reviews Public Comments and Responses to Comments, and is Presented the Draft CLRP & TIP and Conformity Assessment for Adoption
*TPB Meeting	