

AAAMPO

Transportation Conformity

Technical Advisory Committee | December 2, 2022

AAMPO Plans and Documents



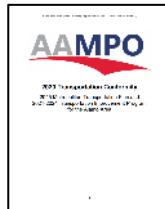
Transportation Improvement Program (TIP)

Funded transportation projects for next four years; *updated every two years*; Fiscal Year 2023-2026
TIP locally – approved June 27, 2022.



Metropolitan Transportation Plan (MTP)

Transportation goals, strategies, and future projects for 20+ years; *updated every four years*;
Mobility 2050 locally-approved June 27, 2022.



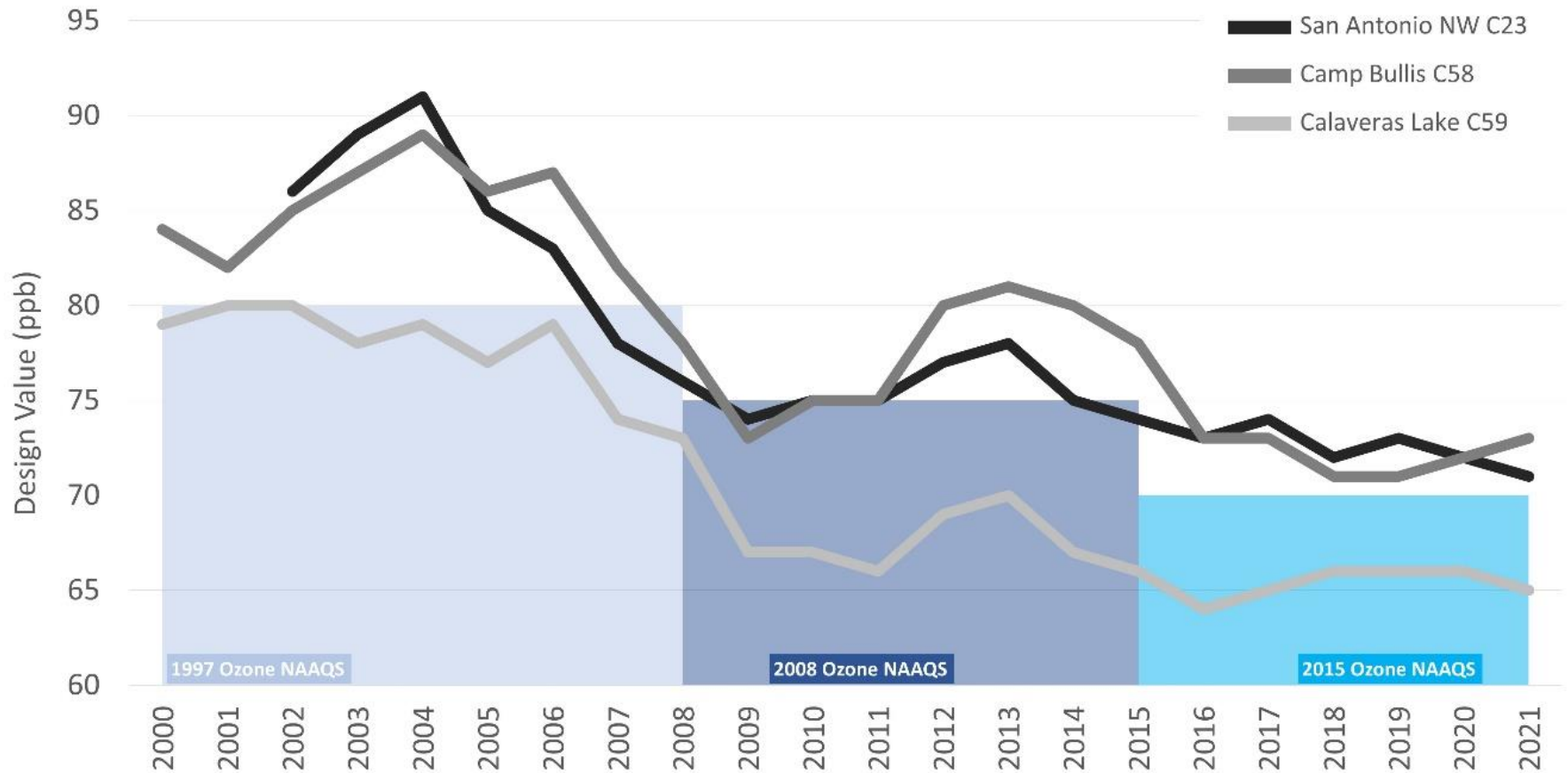
Transportation Conformity Determination (TCD)

Evaluates future transportation projects to ensure no further harm to air quality; approved through government agency consultation process; locally-approved (with test #1) June 27, 2022 – **update scheduled for local approval December 12, 2022.**

Bexar County Nonattainment Timeline

- **September 24, 2018:** Bexar County originally designated *Marginal* nonattainment.
- **September 24, 2021:** Deadline to achieve air quality attainment (i.e. attainment date).
- **April 13, 2022:** US EPA proposes action to reclassify Bexar County from *Marginal* to *Moderate* nonattainment status.
- **October 7, 2022:** US EPA publishes final rule reclassifying Bexar County to *Moderate* nonattainment, effective November 7, 2022.
- **September 24, 2024:** new attainment date under *Moderate* classification.

Bexar County Design Value (2000-2021)



Source: Texas Commission on Environmental Quality

Design Value: The fourth-highest eight-hour average ozone concentration averaged over a consecutive three-year period

NAAQS: National Ambient Air Quality Standards
ppb: parts per billion

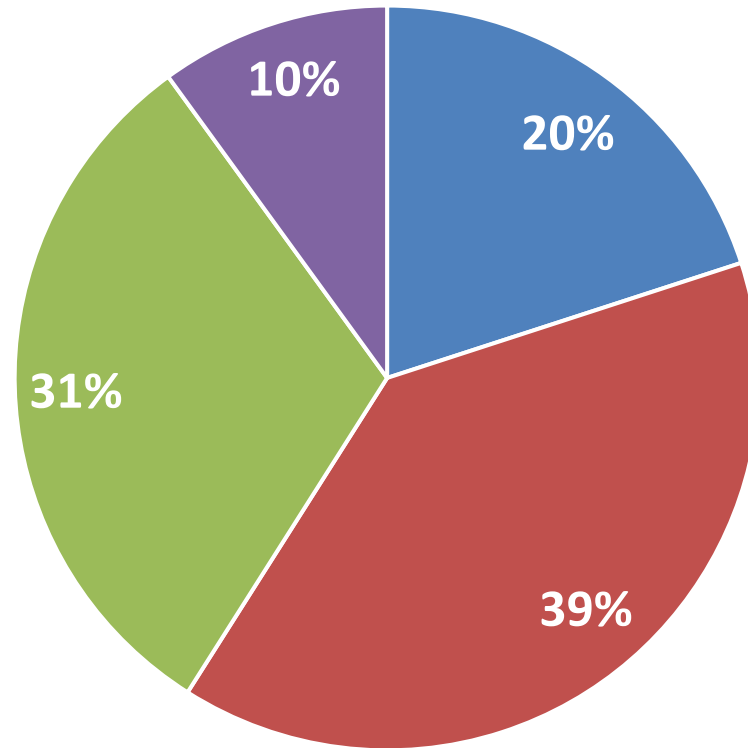
Current Bexar Co. Design Value 2020-2022

Location	2020	2021	2022 _{YTD}	Current DV
<i>Camp Bullis C58</i>	74	78	75	75
San Antonio Northwest C23	69	70	76	71
Calaveras Lake C59	66	66	70	67

Source: [TCEQ](#)

Ozone Sources in Bexar County

Ozone Production

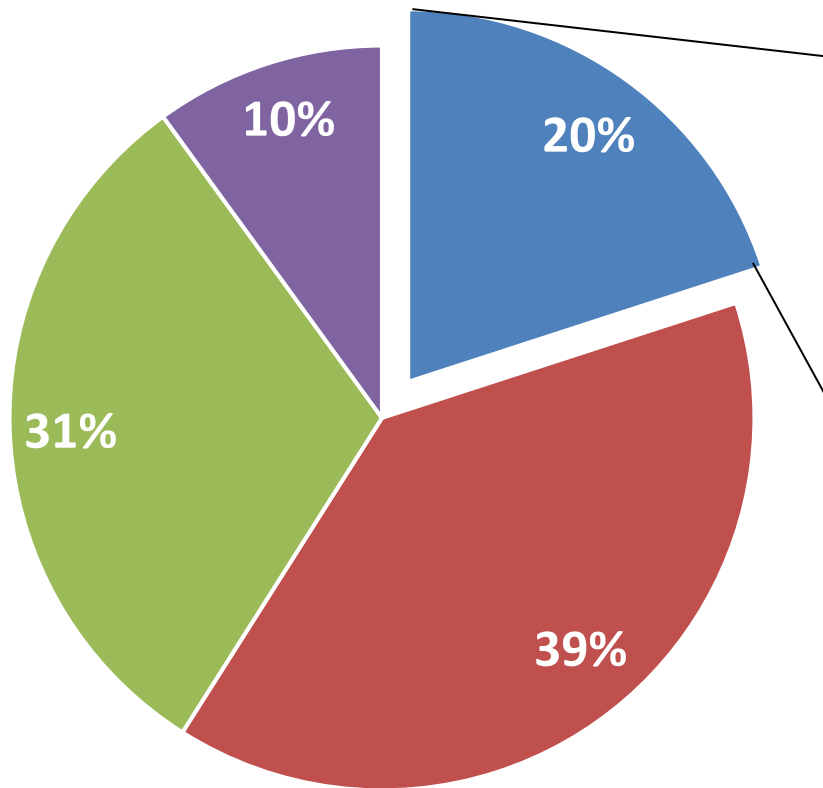


- Bexar County
- Other States, Countries, Regions
- Outside of AQ Model Area
- Other Texas Regions

Source: AACOG Photochemical Model, 2018

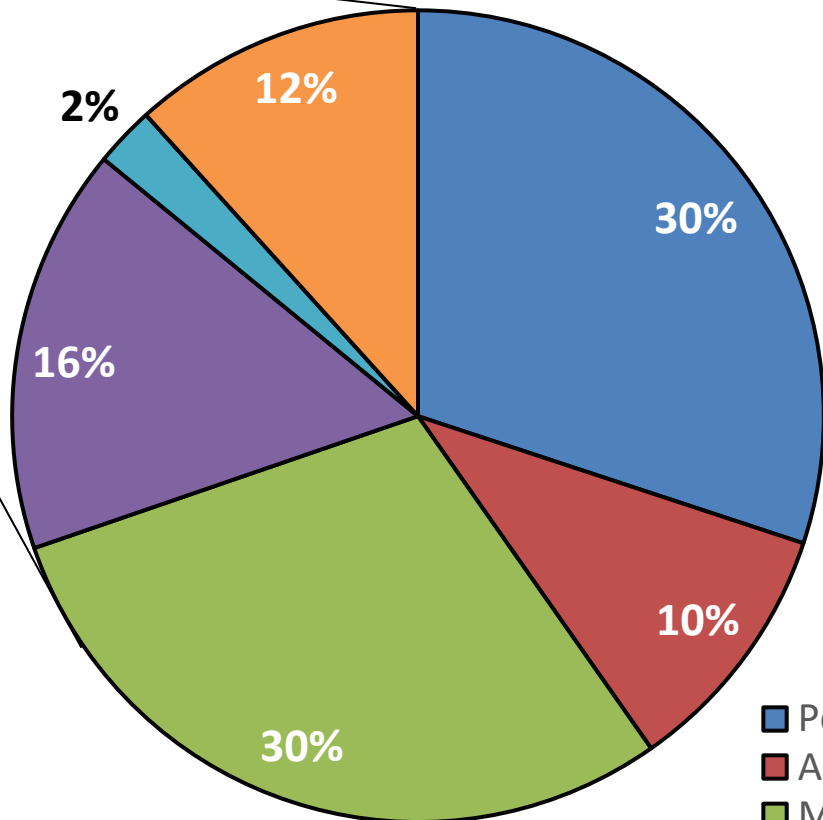
Ozone Sources in Bexar County

Ozone Production



- Bexar County
- Other States, Countries, Regions
- Outside of AQ Model Area
- Other Texas Regions

Local Contributors



- Point
- Area
- Mobile
- Nonroad
- Offroad
- Other

Source: AACOG Photochemical Model, 2018

Moderate Nonattainment Requirements

- Develop **Motor Vehicle Emissions Budget (MVEB)** as a baseline for future emissions modelling
- Develop **Inspections and Maintenance (I/M) program**
 - Alamo Area Council of Governments (AACOG) and Texas Commission on Environmental Quality (TCEQ)
 - Smog testing during motorists' annual state inspections
 - Inspection tests ranges from \$11.50 to \$18.50 per vehicle
- TCEQ has approximately two years to amend the **Statewide Implementation Plan (SIP)** for air quality to include the MVEB for and I/M Program for Bexar County

Moderate Nonattainment Requirements

- Complete an **additional interim emissions test** comparing the existing and committed transportation system (no-build) to what's proposed in the TIP and MTP (build).
 - Initially, test did not demonstrate conformity
 - several “off-model” **Congestion Mitigation and Air Quality (CMAQ) projects** were factored into the analysis to meet conformity requirements

Bexar County “Action-Baseline” Results

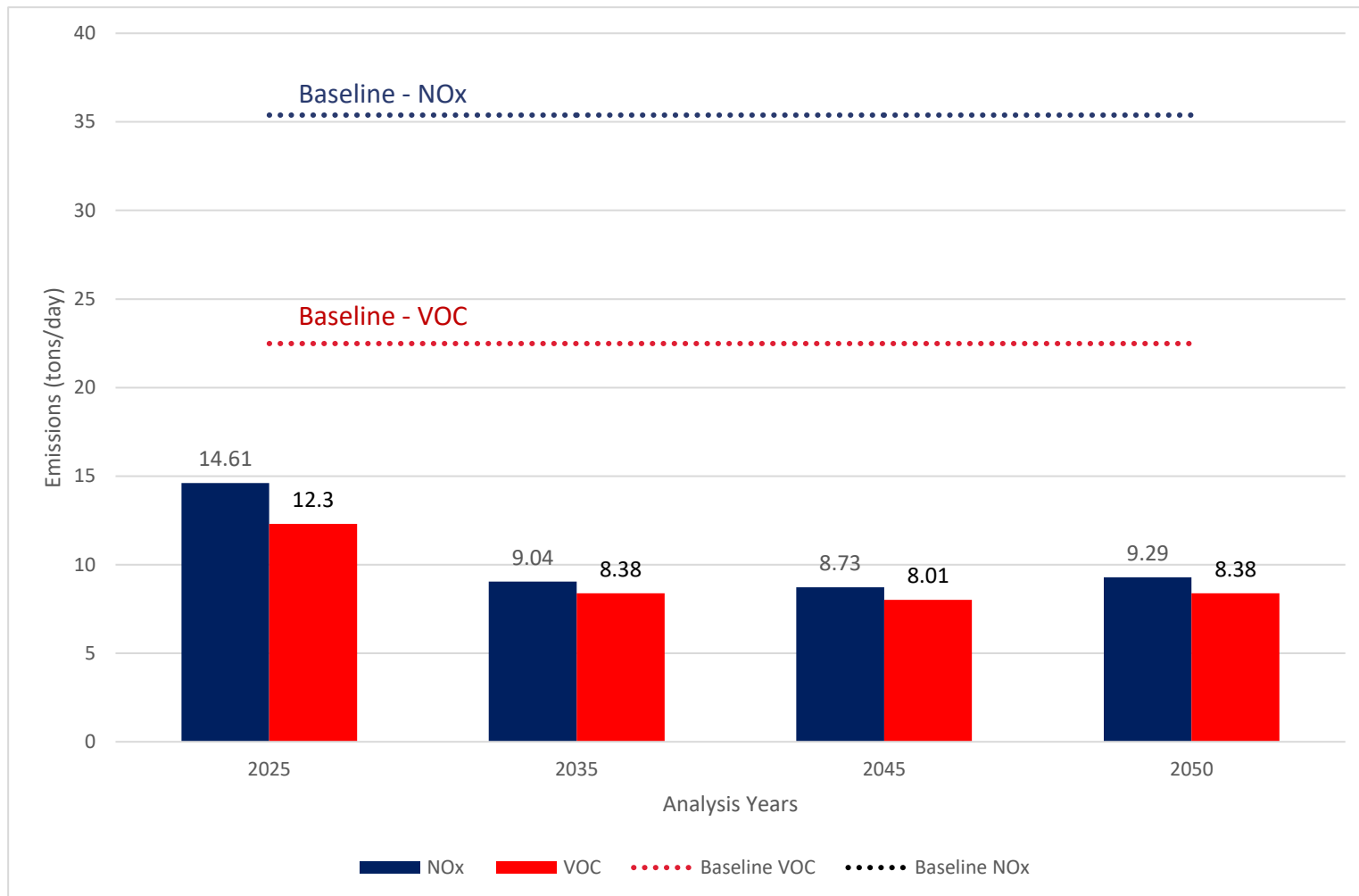
Test #1 Criteria: Emissions modeled for analysis years must be **at or below** 2017 baseline year

Year	NO _x	VOC
2017	35.38	22.49
2025	14.61	12.30
2035	9.04	8.38
2045	8.73	8.01
2050	9.29	8.38

Source: Texas A&M Transportation Institute analysis using MOVES2014b (September 2022)

NO_x: Nitrogen Oxides
VOCs: Volatile Organic Compounds

Bexar County "Action-Baseline" Results



Source: Texas A&M Transportation Institute analysis using MOVES2014b (September 2022)

NO_x: Nitrogen Oxides
VOCs: Volatile Organic Compounds

Bexar County “Build v. No-Build” Results

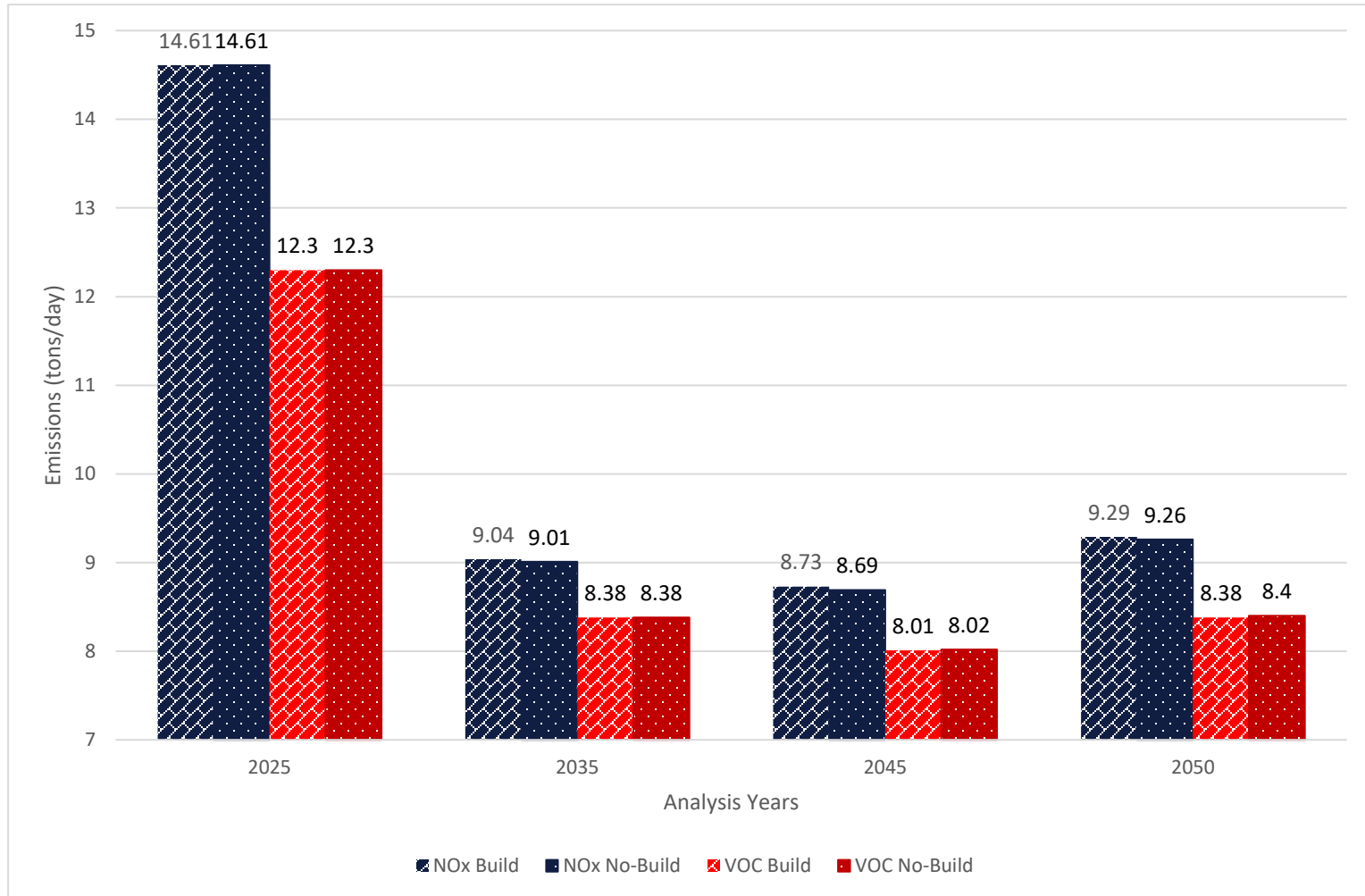
Test #2 Criteria: Emissions modeled for “build” scenario **must be below** “no-build” for each analysis year

Year	Build		No-Build	
	NO _x	VOC	NO _x	VOC
2017	35.38	22.49	N/A	N/A
2025	<u>14.61</u>	<u>12.30</u>	14.61	12.30
2035	<u>9.04</u>	<u>8.38</u>	9.01	8.38
2045	<u>8.73</u>	8.01	8.69	8.02
2050	<u>9.29</u>	8.38	9.26	8.40

Source: Texas A&M Transportation Institute analysis using MOVES2014b (September 2022)

NO_x: Nitrogen Oxides
VOCs: Volatile Organic Compounds

Bexar County “Build v. No-Build” Results



Source: Texas A&M Transportation Institute analysis using MOVES2014b (September 2022)

NO_x: Nitrogen Oxides
VOCs: Volatile Organic Compounds

“Off-Model” Emissions Reductions

- By statute, certain projects and programs must be included in the “No-Build” scenario
 - Existing facilities, services, and activities
 - Transportation Demand Management (Alamo Commutes) and Transportation System Management and Operations (HERO)
 - Regionally significant projects:
 - a) Under construction
 - b) Undergoing right of way acquisition
 - c) Listed in first year of **previously conforming** TIP or MTP
 - d) Successfully completed the National Environmental Policy Act (NEPA) process
- FY23-26 TIP Congestion Mitigation and Air Quality (CMAQ) projects can be used to demonstrate conformity, if they are not modelled and not included in the “No-Build” scenario.

Source: [Code of Federal Regulations § 93.119](#)

“Off-Model” Emissions Reductions

Year	Reduction Needed		CMAQ Reduction	
	NO _x	VOC	NO _x	VOC
By 2025	20	20	187	78
2035	80	20	216	83
2045	100	0	216	83
2050	80	0	216	83

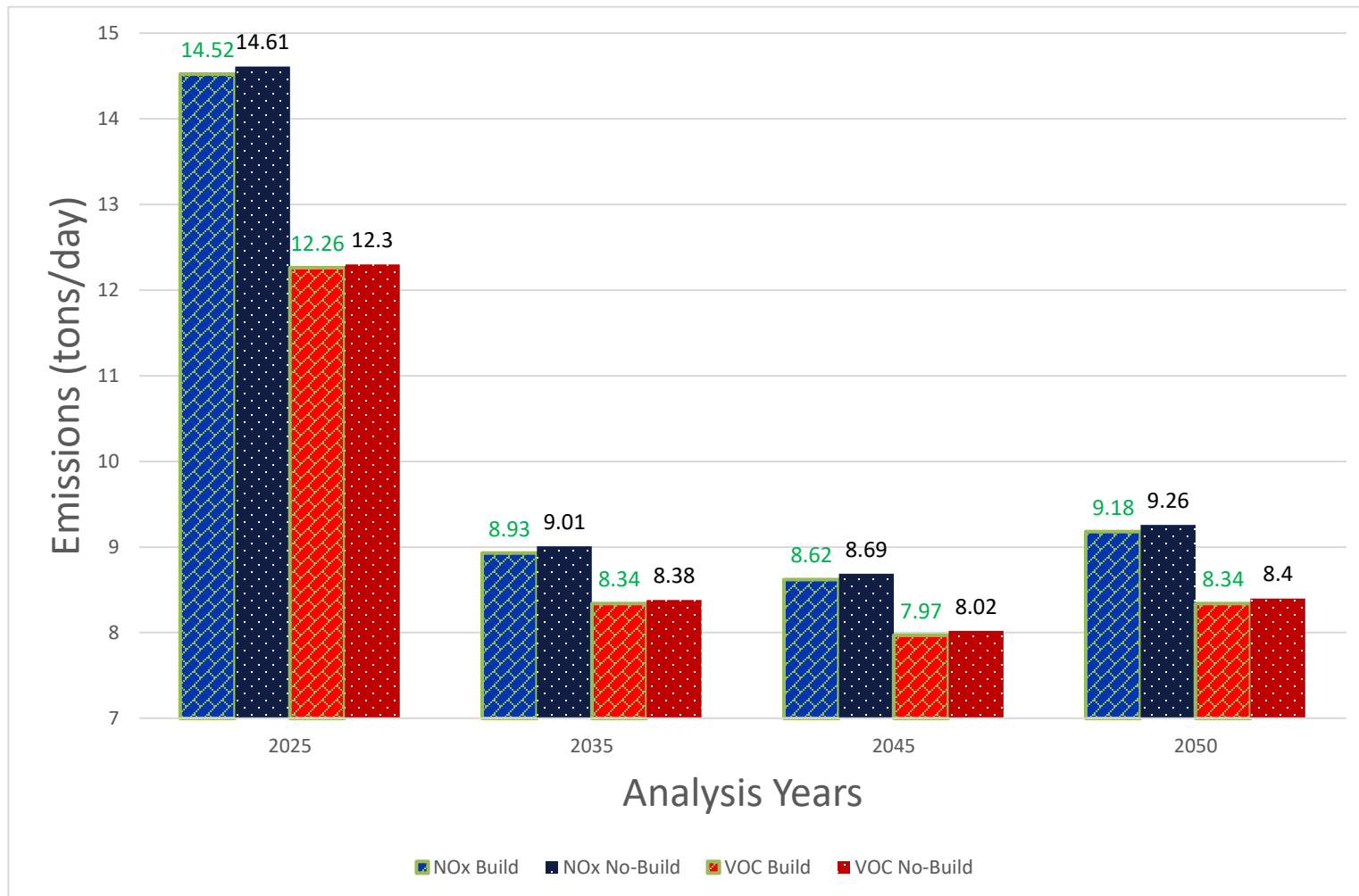
* Emissions reductions are in lbs./day in this table

Source: AAMPO CMAQ Projects in FY23-26 TIP

NO_x: Nitrogen Oxides

VOCs: Volatile Organic Compounds

“Build v. No-Build” w/ CMAQ Benefits



Source: Texas A&M Transportation Institute analysis using MOVES2014b (September 2022)

NO_x: Nitrogen Oxides
VOCs: Volatile Organic Compounds

2023 Transportation Conformity Webpage



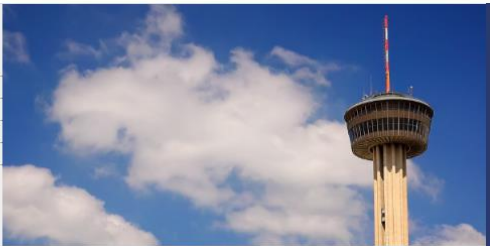
Alamo Area Metropolitan Planning Organization
We plan to keep you moving!



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Transportation Conformity

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- Transportation Conformity
- Air Quality in the Alamo Region
- Transportation and Air Quality
- CMAQ and Other Funding
- Resources



Transportation Conformity evaluates future transportation projects to ensure they cause no further harm to air quality. The transportation conformity process is required of all MPOs within nonattainment areas-regions that the United States Environmental Protection Agency has determined do not meet a healthy level of air quality. Bexar County was originally designated as a Marginal nonattainment area for ozone in 2018. In 2022, EPA redesignated the Bexar County nonattainment area as Moderate effective November 7, 2022, with an attainment date of September 24, 2024.

2021 Transportation Conformity

Draft 2023 Conformity Document

Presentation Overview

1. Alamo Area Metropolitan Planning Organization (AAMPO)
2. Bexar County Nonattainment
3. Why are we updating the Transportation Conformity Document?
4. How to Make a Public Comment

www.alamoareampo.org

AAMPO

View Presentation with Notes (PDF)

AAMPO is inviting feedback on its draft 2023 Transportation Conformity Document beginning October 30, 2022 through December 1, 2022. Additional information has been added to the document addressing additional requirements for Moderate nonattainment areas. The version of the document originally approved by the Transportation Policy Board on June 27, 2022 addressed only requirements for Marginal nonattainment. Responses to public comments will be incorporated into the draft document. The AAMPO Transportation Policy Board will consider the 2023 Transportation Conformity Document for approval at the December 12, 2022 meeting.

AAMPO will host a public meeting Tuesday, November 15, 2022 at 6 p.m. at TxDOT San Antonio District Headquarters, Building 2 Training Room, located at 4615 NW Loop 410, 78229. A presentation will be followed by an opportunity for public comment.

Official forms of comment are:

1. At the public meeting on Tuesday, November 15, 2022 at 6 p.m. at TxDOT San Antonio District Headquarters, Building 2 Training Room, located at 4615 NW Loop 410, 78229.
2. Online at www.alamoareampo.org/airquality/conformity
3. By email to Clifton Hall: hall@alamoareampo.org
4. By mail to the Alamo Area MPO: 825 South Saint Mary's Street, San Antonio, TX 78205
5. At the Transportation Policy Board meeting during Citizens to be Heard on Monday, December 12, 2022.

Social media is **NOT** an official form of comment for this process.

Since ozone levels have stayed above the maximum levels allowed by EPA, the area's status has been moved from "Marginal" to "Moderate."

Provide feedback below:

Feedback Survey

Enter your zip code*

This is a required question and will be used for general analytical use only.

Enter your email address

Would you like to stay informed on area transportation news? If so, please provide your email address to receive periodic updates from AAMPO. Your email address will not be given to any third party.

Please provide your feedback on Transportation Conformity Document

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Submit

2023 Transportation Conformity Document


- Conformity Document (Updated 10/17/2022)
- FHWA Conformity Concurrence Letter - (Pending)
- EPA Conformity Concurrence Letter - (Pending)
- TCEQ Conformity Concurrence Letter - (Pending)
- Conformity Determination - (Pending date of approval)

Appendices

- 12.1 - Resolution
- 12.2 - Mobility 2050 (Locally-Approved on 6/27/2022; Pending Federal Approval)
- 12.3 - 2023-2026 Transportation Improvement Program (Locally-Approved on 6/27/2022; Pending Federal Approval)
- 12.4 - Travel Model Validation (Updated on 10/17/2022)
- 12.5 - VMT, Loaded Speed, and Centerline Mile Summaries (Updated 10/17/2022)
- 12.6 - Definition of Regionally Significant Roadway System (Updated 5/18/2022)
- 12.7 - Roadway System (Capacity Staging) and Network Link Listing - Build | No-Build (Updated 10/28/2022)
- 12.8 - Network Shapefiles (zip) (Updated 10/17/2022)
- 12.9 - Mode Choice Model Summaries (Updated 10/17/2022)
- 12.10 - MOVES Information and Analysis Notes (Updated 10/17/2022)
- 12.11 - MOVES Input and Output Files (.zip) (Updated 10/17/2022)
- 12.12 - MOVES Emission Factors (.zip) (Updated 10/17/2022)
- 12.13 - Estimated Hourly Emissions and Activity (.zip) (Updated 10/17/2022)
- 12.14 - VMT, Speed, and Emissions Summaries (zip) (Updated 10/17/2022)
- 12.15 - Interagency Consultation Process (Updated 5/6/2022)
- 12.16 - Public Involvement Process

<https://www.alamoareampo.org/AirQuality/conformity/>

2023 Transportation Conformity Schedule

Updated TCD posted on AAMPO website	October 14, 2022
Public Comment Period Opens	October 30, 2022
Public Meeting	November 15, 2022
Public Comment Period Closes	December 1, 2022
 Technical Advisory Committee Action*	December 2, 2022
Transportation Policy Board Action*	December 12, 2022
Joint FHWA-FTA Conformity Determination	Early 2023 (Tentative)

*Opportunity for public comment as “citizen-to-be-heard”

AAAMPO

Questions?

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