

# Agenda

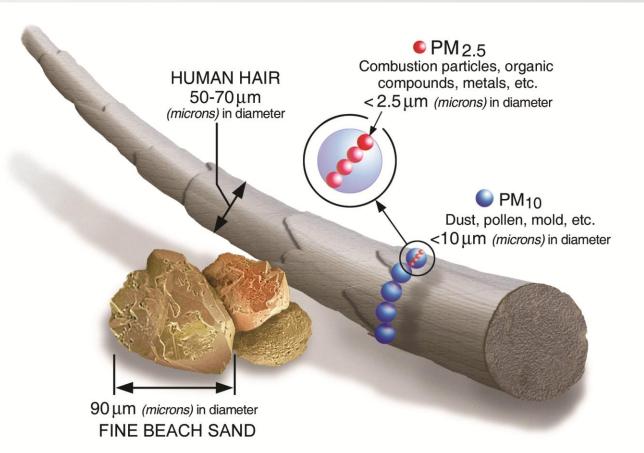


- 1. PM<sub>2.5</sub> Overview
- 2. PM NAAQS Standards
- 3. Our Region's PM<sub>2.5</sub> Values
- 4. Timeline



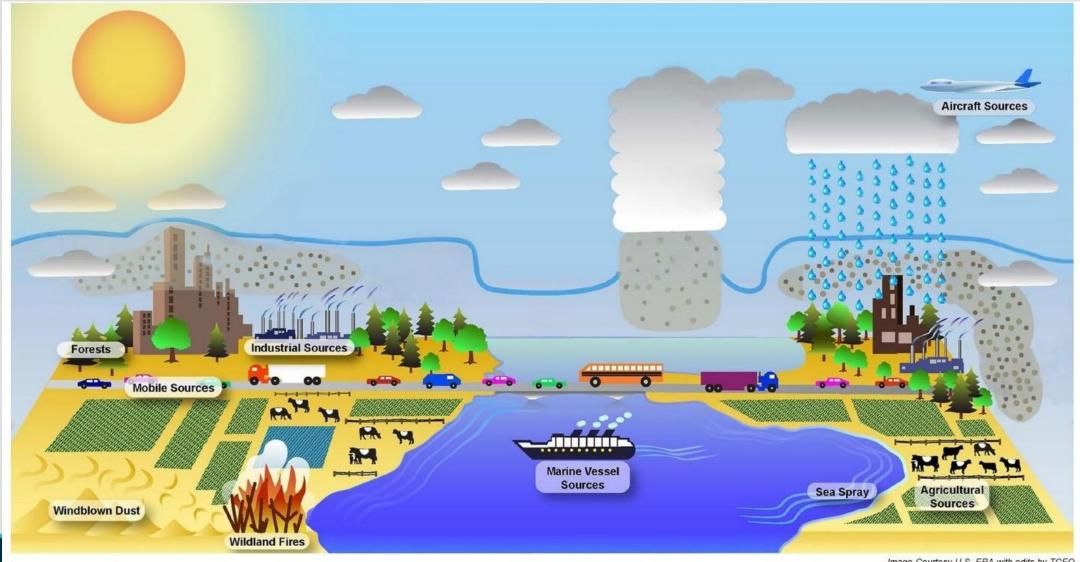
### What Is Particulate Matter (PM)

- PM is solid particles or liquid droplets that are in the air.
- Some particles are large/dark enough to be seen by the naked eye: dust, soot, dirt.
- Other particles can only be seen under a microscope.
- PM can be classified as fine particulates or coarse particulates based on size.
- PM can be directly emitted or formed in the atmosphere due to reactions.





# PM<sub>2.5</sub> Sources



### Current Standard: 2012 PM NAAQS

- -2012 PM<sub>2.5</sub> NAAQS
  - Primary Annual Standard: 12.0 micrograms per cubic meter (μg/m3)
  - Secondary (Welfare-Based) Annual Standard: 15.0 μg/m3
  - Primary and Secondary 24-Hour Standard: 35 μg/m3
- 2012 PM<sub>10</sub> NAAQS
  - Primary and Secondary Standard: 150 μg/m3



#### New Standard: 2024 PM NAAQS

- On February 7, 2024, the EPA took final action on the reconsideration of the PM<sub>2.5</sub> NAAQS.
  - Lowered the primary annual standard from 12.0 to 9.0  $\mu$ g/m<sup>3</sup>.
  - Retained the secondary annual standard of 15.0  $\mu$ g/m<sup>3</sup>.
  - Retained the 24-hour standard of 35  $\mu$ g/m<sup>3</sup>.
- The new primary 2024 PM<sub>2.5</sub> annual standard is expected to become effective in April 2024.



# Our Region's PM<sub>2.5</sub> Design Values

- 2020-2022 annual PM<sub>2.5</sub> design values that exceed the revised annual PM<sub>2.5</sub> NAAQS (9.0  $\mu$ g/m<sup>3</sup>):
  - Houston North Wayside 12.6\*
  - Houston North Loop 11.4
  - Clinton Drive 10.4
  - Houston East— 10.2
  - Baytown 10.1
  - Houston Aldine 10.0

Anticipate an initial "Moderate" designation



# Tentative Implementation Timeline

Date	Event
February 7, 2024	PM <sub>2.5</sub> NAAQS revision finalized
February 7, 2025	State designation submittal
October 9, 2025	120-day Letter from EPA to Governor
February 6, 2026	Final designations effective
Mid 2027	State Implementation Plans Due
December 2032	Anticipated Attainment Date



#### Questions?

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