Air Impacts, Agency Efforts and What Individuals Can Do

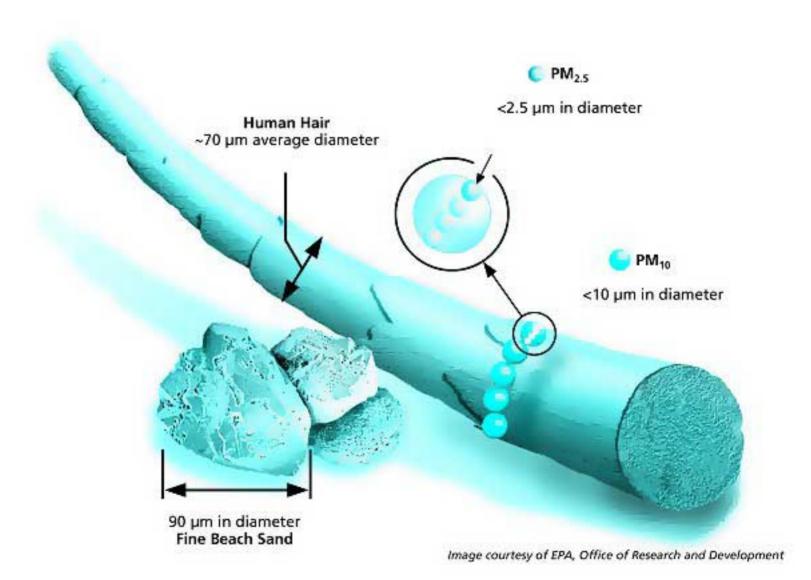


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Air Pollutants Lead **Sulfur Dioxide** Ozone NOx **VOCs Carbon Dioxide Particulate Matter**

Sulfur Dioxide

Air Toxics





Air Pollutants

Carbon Monoxide – generated by fuels not burned completely

Sources: (60%) motor vehicle exhaust (90% motor vehicle exhaust in cities)

Lead – lead smelters, gasoline (legacy), waste incinerator, utilities, lead-acid battery manufacturing

Air Pollutants

NOx – burning of fuel

Sources: motor vehicles (40%), electric utilities, and other industrial, commercial, and residential sources that burn fuels

Particulate Matter – fine (combustion from motor vehicles and power plants, coarse (dust from pave and unpaved roads)

Sulfur Dioxide – sulfur fuels (coal and oil), metal smelting and other industrial processes; power plants, petroleum refineries, iron/steel mills

Volatile Organic Carbon Compounds – motor vehicles (30%), solvents, paints, lacquers, paint strippers and cleaning supplies

Toxics – all above plus dry cleaning, gasoline station (loading/unloading)

Benzene (gasoline)

Perchloroethylene (dry cleaning)

Methylene chloride (solvents/paints strippers)

Agency Efforts

Regulatory

- Permits
- State Implementation Plans

Special Efforts

- Beyond Translation
- Environmental Justice and Tribal Office
- Special Projects

Special Air Monitoring Projects

Air Toxics Community Based Projects

Houston Exposure to Air Toxics Study

Purpose: Better understand how air toxic compound concentrations compare to concentrations measured in stationary monitors



Contributors and Funding Levels for the HEATS Project

Contributor	Current Funding Amount*
Contributor	
TCEQ	\$476,585
EPA Region 6 Grant to TCEQ	\$400,000
Mickey Leland National Urban Air Toxics Research Center (NUATRC)	\$275,000
Houston Advanced Research Center-Texas Environmental Research Consortium (HARC-TERC)	\$50,000
Harris County	\$50,000
East Harris County Manufacturers' Association (EHCMA)	\$50,000
City of Houston	Consultant / Project Adviser
TOTAL =	\$1,301,585

What Individuals Can Do

Public Participation and Comment

- Permits
- State Implementation Plans
- Standards

Special Projects and Collaboration

- Houston Exposure to Air Toxics Study
- City of Houston Mobil Air Toxics Monitoring Project