

# Environmental Data Evaluation

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**ATSDR**  
AGENCY FOR TOXIC SUBSTANCES  
AND DISEASE REGISTRY

# Environmental Subteam Evaluation

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## Responsible for Projects 1-4

- Project 1: Sufficiency of database
- Project 2: VOC and metals analysis (Air)
- Project 3: VOC and metals analysis (other media)
- Project 4: NAAQS and H2S analysis (Air)



# Project 1-Overview

- Do the available data provide a sufficient basis for reaching conclusions regarding air exposures?

- Responses will vary by:

- Pollutant
- Location
- Year

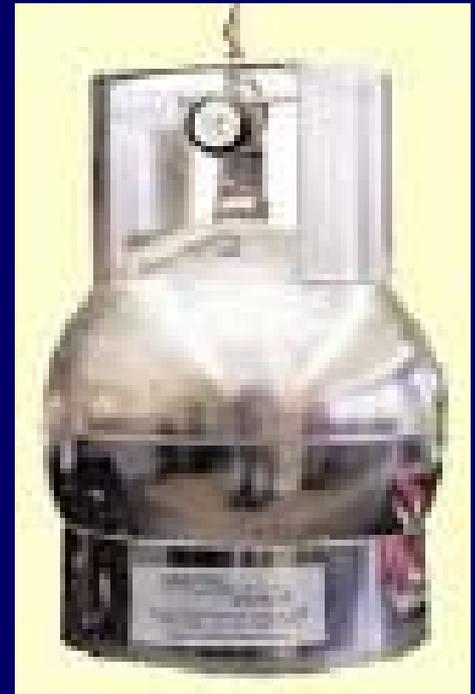


TSP Monitor



# Project 1-Issues to Evaluate

- Pollutants selected for monitoring
- Monitoring schedules
  - Frequency of sampling
  - Duration of individual samples
- Methods and data quality
- Placement of monitors



SUMMA canister

# Project 1-Data Sources

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- **Emissions**
- **Meteorology**
- **Ambient air quality**



# Project 1-Emissions Data Sources

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- Toxics Release Inventory
- National Emissions Inventory
- State of Texas Air Reporting System
- Information from file reviews
  - Stack tests
  - Continuous Emissions Monitors



# Project 1-Meteorology Data Sources

- Quantitative review of data collected by stations with longest period of record
  - Midlothian OFW site
  - Midlothian Tower site
- Qualitative review of data collected by other stations



6/4/08

OFW Met station



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# Project 1-Air Quality Data Sources

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- All data considered in the previous Health Consultation
- Additional data



# Projects 2/3-Air Contaminants

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What are the public health implications of exposure to VOCs, metals, and criteria pollutants in ambient air?

- **Have collected almost all available data**
- **Complete public comment draft**  
**Fall of 2010**



# Projects 2/4-Air Contaminants

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## Process:

- **Statistical analysis of existing data**
- **Correlation analysis of meteorological data and ambient concentrations**
- **Identify the most current health based comparison values**



# Projects 2/4-Air Contaminants

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## Process (cont)

- Toxicological analysis
- Identify limitations
- Provide recommendations



# Project 3-Other Media

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What are the public health implications of exposure to organic chemicals and metals in environmental media other than air?

- **Have collected all available data**
- **Complete public comment draft Fall of 2010**



# Project 3-Other Media

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## Process:

- Statistical analysis of existing data
- Evaluate spatial and temporal relationship of data
- Identify the most current health based comparison values



# Project 3-Other Media

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## Process (cont)

- Toxicological analysis
- Identify limitations
- Provide recommendations

