

Environmental Technology Verification (ETV) Road Dust Palliatives

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Real World Clean Air Symposium May 22, 2002



ETV

 The Environmental Technology Verification Program (ETV) is a U.S. EPA program that generates independent and credible data on performance of technologies.

 Purpose – to help in decision making when selecting new environmental technologies.



Sponsors

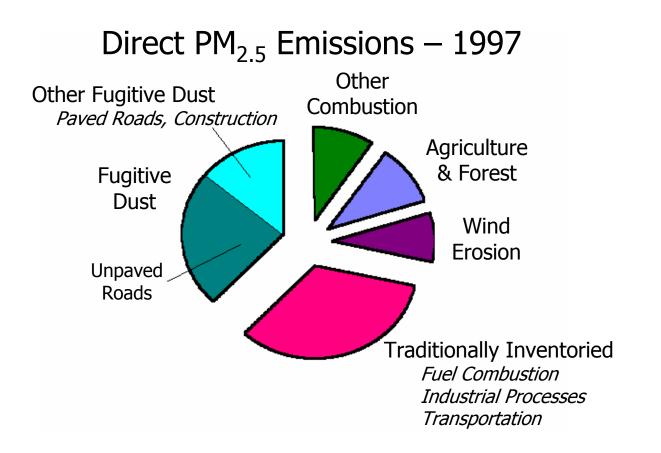
- Research Triangle Institute (RTI) manages the Air Pollution Control Technology Verification Center with Midwest Research Institute (MRI) as a subcontractor
- U.S. Army Corps of Engineers, Construction Engineering Research Laboratory funded Mobile Sampler Development

MRI® Dust Suppression and Soil Stabilization

- 1.5 million miles of unpaved roads in U.S.
- Dust generated from unpaved roads contributes to fine PM air pollution issues
- New products are coming onto the market
- Users want demonstrations



PM_{2.5} Emissions





Fall 2001 Fort Leonard Wood Test

- Air pollutant dust emissions only
- Correlating mobile dust sampler with profiling
- Seven products three vendors
- Four test series over 3 months
- Completed field work in January



Dust Suppressant Application





Before Dust Suppressant





After Dust Suppressant





Profiling Towers





Mobile Dust Sampler







Next Verification Tests

- Tests will run 12 months
- Include emissions tests, dust suppression functionality and soil stabilization testing options
- Sites are
 - Maricopa County, Arizona
 - Fort Leonard Wood, Missouri



Schedule

- Site survey and vendor meetings
- Product application uncontrolled testing
- Control efficiency tests
- Verification statements/reports

Quarterly Summer 2003

March 2002

June 2002