

# Soil-Sement®

Dust and Erosion Control Agent

## CASE HISTORY

UNPAVED SHOULDERS



Topical application of SOIL-SEMENT® onto shoulder

### Best Available Control Technology for UNPAVED SHOULDER Dust Control

In an important study published by Desert Research Institute dated December 31, 1996 studying dust suppressant effectiveness for unpaved shoulders, data confirmed that the majority of PM<sub>10</sub> emissions from unpaved shoulders are caused by relatively few vehicles.

The study confirmed the theory that vehicle-induced dust entrainment from unpaved shoulders is due to Reynolds shear stress induced by the turbulent wake of "Dust Entraining Vehicles." Dust Entraining Vehicles are defined as large-size vehicles with poor aerodynamics. Traffic induced turbulence events which led to significant dust entrainment were almost exclusively caused by "large" vehicles such as trucks, semis and vehicles pulling trailers, all travelling 50-65 mph.

To stop unpaved shoulder fugitive emissions, one product has stood the test of time and turbulence — SOIL-SEMENT® chemical stabilization. In test after test, conducted by state and federal regulatory agencies, Soil-Sement® has proven to be the "**number one product**" to control PM<sub>10</sub> and PM<sub>2.5</sub> fugitive dust emissions. SOIL-SEMENT® provides "**best available control**" especially for "turbulence" produced by "Dust Entraining Vehicles." This dust and erosion control agent is environmentally safe, dries clear, and does not harm vegetation.

Midwest Industrial Supply, Inc. can provide turn-key installation of Control Programs based on the unique requirements of your specific project. Our field technical service personnel are available for consultation and recommendations to determine the program best suited for your project's requirements.



Blade mixing SOIL-SEMENT® into unpaved shoulder



SOIL-SEMENT® stabilized dust-free shoulder

For more information:

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"From Dirt to Toxic Dust," by Richard Sullivan with permission of  
Environmental Protection, May 1997