

State of Wisconsin/Department of Transportation
RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: Dec 06, 2006

Program: SPR-0010(36) FFY99		Part: II Research and Development	
Project Title: Monitoring and Evaluation of Fly Ash Stabilized Subgrade Constructed by the Wis DOT		Project ID: 0092-04-10	
Administrative Contact: Jim McDonnell		Sponsor: WHRP (WisDOT)	
WisDOT Technical Contact: Bob Arndorfer		Approved Starting Date: June 21, 2003	
Approved by COR/Steering Committee: \$84,603		Approved Ending Date: May 21, 2006	
Project Investigator (agency & contact): Tuncer B. Edil			

Percent Complete: 92%

Project Description: This project will determine how fly ash stabilization for subgrade improvement impacts construction and pavement design parameters. The project includes the following phases:
Phase 1- Development of Laboratory Testing and Field Monitoring Program
Phase 2- Implementation of Data Collection and Monitoring Plan
Phase 3- Long-term Monitoring

Progress This Quarter:

Material Property Testing:

Production testing to evaluate the effect of freeze-thaw on long-term modulus degradation is currently completed. The results have been analyzed.

Field Instrumentation:

Volumetric water content, soil temperature, precipitation and air temperature data are being downloaded and collected with remote-controlled modem.

Non Destructive Quality Control Tests:

The October 2005 FWD test have been analyzed. May 2006 FWD data could not be collected because the WisDOT FWD equipment is broken. Instead of May 2006, FWD was performed in August, 2006. The data is being analyzed.

Leachate Quality Data Collection:

Over the past quarter the lysimeters installed at STH 12 have been sampled. The samples have been filtered and preserved and are analyzed from cadmium, chromium, selenium, and silver. Column leach test data are being evaluated.

Report

A draft final report summarizing the US 12 project data was submitted.

Work Next Quarter:

Make revisions to the final report. Project extension with additional funding for another year has been approved by the Geotech TOC. Monitoring therefore will continue without interruption.

Circumstances Affecting Progress/Budget:

None

Gantt Chart:

Phase 1: 95% complete
Phase 2: 95% complete
Phase 3: 90% complete