

State Planning and Research Program Quarterly Report

PROJECT TITLE: Geocomposite Capillary Barrier Drain (GCBD)

OBJECTIVES:

Monitor and collect data from the sensors of the GCBD Research project at the MnROAD site.
4th Quarter 2006 Report (October-December, 2006)

PERIOD COVERED: October-December, 2006

PARTICIPATING AGENCIES: Minnesota Department Of Transportation, Michigan Department Of Transportation, New York Department Of Transportation, CRREL, University of New Mexico

PROJECT MANAGER:

Andrew Eller

SP&R PROJECT NO:

TPF 5(126)

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY:

Minnesota Dept. of Transportation

PRINCIPAL INVESTIGATOR:

Andrew Eller, John Stormont, Karen Henry

ANNUAL BUDGET:

A majority of the budget covered the 2006 construction. Year two will be significantly less.

1st year ~ 225,000

2nd year ~ 30,000

PROJECT EXPENDITURES TO DATE: \$222,494.03

Construction

HardDrives Inc.	179,224.20
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Supplies/Instrumentation

Tenex (geonet)	7,763.16
Campbell(sensors)	17,844.59
Decagon (sensors)	5,705.09
Misc. equipment.	740.18

Salaries

District 3:Design	5,247.72
GCBD material prep & assembly, (Student worker salary, etc)	4,375.16

Travel/Misc

MI	645.21
NY	928.72

WORK COMPLETED:

Final payment of \$108,384.31 made to HardDrives Inc. Work out bugs/issues with sensors and test data collection system. Wire sensors, work out bugs in datalogger program, and begin collecting some amount of data.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Monitor operation of TDR, heat dissipation, ECH₂O, tipping buckets, thermocouples, open standpipes with pressure transducers, and resistivity probes; troubleshoot data collection problems and continue collecting data.

STATUS AND COMPLETION DATE:

Barring any further issues with the sensors, data collection will continue. Mn/DOT will continue to monitor Cells 27 and 28 for sensor problems. Data collection will be completed in 7/2008.