

**State Planning and Research Program
Quarterly Report (1st Quarter 2010)**

PROJECT TITLE:

Evaluation of Non-intrusive Traffic Detection Technologies – Phase III

OBJECTIVES:

The use of non-intrusive technologies for traffic detection has become a widespread alternative to conventional roadway-based detection methods. This project is conducting field tests of the latest generation of non-intrusive traffic sensors in order to assess their capabilities and limitations in a variety of test conditions. Specific test conditions are driven by the needs of participating state agencies.

PERIOD COVERED:

January 1, 2010 to March 31, 2010

PARTICIPATING AGENCIES:

Connecticut DOT, Florida DOT, Georgia DOT, Hawaii DOT, Idaho DOT, Illinois DOT, Iowa DOT, New York DOT, Minnesota DOT, Mississippi DOT, Montana DOT, Ohio DOT, Texas DOT and Wisconsin DOT.

PROJECT MANAGER:

Jerry Kotzenmacher, Mn/DOT

SP&R PROJECT NO:

TPF-5(171)

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY:

Mn/DOT

PRINCIPAL INVESTIGATOR:

Erik Minge, SRF Consulting Group, Inc.

ANNUAL BUDGET:

\$85,000

TOTAL CONSULTANT BUDGET:

\$149,985.74

PROJECT EXPENDITURES TO DATE:

\$XX,XXX

CONSULTANT EXPENDITURES TO DATE:

\$129,146.64

WORK COMPLETED THIS QUARTER:

Continued long-term testing of Wavetronix HD and GTT Canoga Microloops at the NIT shelter. Performed data analysis on Wavetronix HD, GTT Canoga Microloops and Miovision data including per-vehicle record comparisons. Submitted an Interim Project Update that documented results from the first phase of testing. Procured Mn/DOT's TIRTL unit for testing. Commenced testing axle-based sensors at Mn/DOT's TH 52 WIM site.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Continue field testing (Task 5), data analysis and write a draft of the Final Report (Task 6). Test the axle-based sensors will be tested at the NIT test site. Additional requested baseline ground-truthing will be done to verify that the length baselines are accurate for passenger cars, single unit trucks and multi-unit trucks. The draft Final Report will be submitted for comment prior to the final face-to-face project meeting to be held at NATMEC.

STATUS AND COMPLETION DATE:

Project is currently on schedule despite delays caused by the need to install piezoelectric (piezo) sensors. The anticipated completion date is still September 30, 2010. The piezo install required services of an installation contractor, this direct expense was not part of the original budget. Also, additional consultant time was required to complete this task (Task 4). The extra cost is being covered by an amendment that adds pooled fund budget to the consultant contract.