

## **PUBLIC PAGE**

During the period from 1 Sept 06 to 30 November 06, PSI and NYSEARCH have been working on the following tasks for the PIGPEN sensing program: 1) Deploying Additional Sensors for Complex Soil Field Testing, and, 2) Conducting Geophysical Modeling.

During this period, discussions were held among the team members to select and characterize additional field test sites to address the issues of verifying source location accuracy in different soils and across interfaces. As a result, a well-characterized site in Lawrence, Kansas was picked for field testing. Four days of field tests of the system were conducted in complex soils with involvement from PSI, NYSEARCH and the Independent Geophysical consultant. Preliminary results are available. Also, during this quarter, discussions were initiated with a geophysical numerical modeling expert.

During the next quarter, the detailed results of the field tests will be analyzed and discussed among team members. The numerical modeling expert will use prior data and the complex soil field test data to complete his numerical model. Following that effort, with assistance from the geophysical experts, PSI will recommend changes to its signal processing algorithm.