

## 3rd Quarterly Report – Public Page

Date of Report: May 31, 2014

Contract Number: DTPH56-13-T-000002

Prepared for: DOT Pipeline and Hazardous Material Safety Administration

Project Title: Real-Time Multiple Utility Detection During Pipe Installation Using Horizontal Directional Drilling (HDD) System

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### **Results and Conclusions:**

The research team has designed and constructed an upgraded acoustic system. Several noise sources were designed and manufactured to be used during the acoustic system tests in the “quiet” area of the local test area. Two pipes, one 3-inch diameter steel pipe and another 10-inch diameter PE pipe, were buried at approximate depth of 4-ft. in silt or clay soils and would be considered a “quiet” area where a noise maker will be required. These pipes are about 25 ft. long and are separated by 50 feet. The drill head can be approached at various angles to these pipes during the tests. The tests with the acoustic have been completed in the last week of May 2014 and tests data are being analyzed.

### **Plans for Future Activity:**

- Analyze the test data generated in the local area tests with the acoustic system and determine project continuation.
- Assuming the project continuation, initiate work on the system integration.
- Write the next milestone reports.
- Write monthly and quarterly reports.