

## 5th Quarterly Report – Public Page

Date of Report: November 18, 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 new rotary noise source was designed, fabricated, and tested initially in the laboratory. The new noise source has three elements with two hammers each. For each hammer, there are three anvils and generates 18 impacts per revolution. The local area tests were conducted and approximately 250<sup>+</sup> data sets were collected to detect buried pipes with the acoustic system and new noise source. The data analysis from the second local area tests was initiated.

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

- Perform analysis of data generated in the local area from the second trial and determine project continuation.
- Assuming the project continuation, initiate work on the system integration.
- Write the next milestone reports.
- Write monthly and quarterly reports.