



Surface Multi-Utility Asset Location Tool

DTPH56-13-T-000001

PHMSA ACCOMPLISHMENTS

Pipeline and Hazardous Materials Safety Administration

Pipeline Safety Research and Development

Technology Development for Improved Threat Prevention

Project Abstract

This project collected additional data in laboratory and in the field with the Acoustic Pipe Locator (APL) to develop guidelines to detect multiple pipes. The developed guideline will assist the industry to detect multiple pipes in the local area and will ultimately reduce the third party damages before excavations or construction.

PHMSA Funding: \$125,998

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Commercial Partner

Sensit Technologies
www.gasleaksensors.com



Picture Courtesy: Sensit Technologies

NET Improvement

More than two hundred utility test locations were surveyed with the Acoustic Pipe Locator (APL). The test results were validated by utility markers, mapping information, and visual inspection methods. Overall, the average pipe detection accuracy of the APL was improved and now is well within 9". The APL also resolved multi-utilities with spacing less than 15" for the stepping distance of 6". In general, the accuracy of the overall system detection performance is well above 80% for the detection criteria of ±18". These results were utilized in updates to the commercially available ULTRA-TRAC APL by Sensit Technologies.

US Patent under DOT Contract: N/A