Natural Gas Pipeline Leak Rate Measurement System DTPH56-15-T-00015L

PHMSA ACCOMPLISHMENTS

Pipeline and Hazardous Materials Safety Administration

Pipeline Safety Research and Development

Technology Development for Improved Leak Detection

Project Abstract

This research enhanced capabilities to detect, locate, and quantify small natural gas pipeline leaks to prioritize remedial actions. The project assembled and evaluated via field tests a system comprising a cost-effective synthesis of side-scan lasers, sensitive laser-based point sampling, and advanced data processing algorithms installed on a mobile leak survey platform.

PHMSA Funding: $226,794

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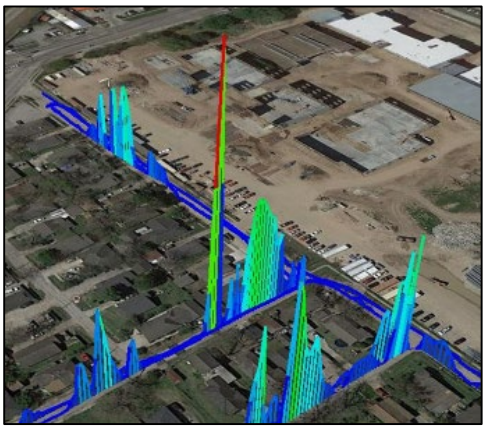
NET Improvement

The project supported development of the Heath MobileGuard™ gas leak detection system which consists of a methane/ethane analyzer, GPS, a sonic anemometer and proprietary leak detection software that presents real-time geospatial maps of multiple gas concentrations. The Mobile-Guard laser-based sensor has a sensitivity and precision more than 3,000 times greater than legacy methods. This enables identification of leaks several hundred feet away from the source.

US Patent under DOT Contract: N/A

Commercial Partner

Heath Consultants Inc.
https://heathus.com/



Pictures Courtesy Heath Consultants, Inc.