

# CLIENT CASE STUDY

## NONDESTRUCTIVE EXAMINATION & INTEGRITY ENGINEERING



### Project Planning

Lake Superior Consulting (LSC) provided engineering support for a Midwest natural gas transmission and distribution company's in-line inspection (ILI) dig program. The project includes the support of tool runs on approximately 2,000 miles of pipeline, resulting in over 1,000 remediation and verification digs over the course of nine years. ILI tool types utilized and supported include MFL, caliper, and EMAT tools.



### Meeting Schedules Quality Standards

LSC implemented digital solutions to improve the way field dig data is captured, managed, controlled and communicated. What was originally shared and documented through spreadsheets and email, is now streamlined through one digital platform - reducing data-entry time, eliminating errors, and providing an overall seamless process.



## MIDSTREAM TRANSMISSION COMPANY

Relevance | 2011 - Current

### LSC Project Role

ILI Dig Inspection, Data Analysis, and Engineering Support

### Project Location | MI

### Project Specifications

- Above Ground Marker and anomaly survey and staking
- Direct Examination of anomaly and dig site including:
  - NDE (Straight Beam UT, SWUT, PAUT, MT, and 3D Laser Scanning)
  - Environmental data collection
  - Cathodic Protection system data collection
  - Coating assessment and re-application inspection
  - As-built data gathering
- As-built drawing creation
- API 1163 validation of ILI tool performance
- Comprehensive final reporting

### Scope

In addition to survey and NDE, LSC drove supplemental projects with HDD design and execution, soil terrain survey, traffic control plans, workspace drawings and environmental permitting support.