



Material Verification

Nondestructive field solutions for safety + compliance:

- › MAOP reconfirmation
- › PHMSA Mega Rule compliance
- › API 5L specifications
- › Asset-life protection
- › Operational performance

Maintain the safety, reliability, and performance of your assets

Audubon provides accurate, reliable [material verification](#) solutions according to the Pipeline and Hazardous Materials Safety Administration (PHMSA) [Mega Rule](#). Our proprietary process delivers a systematic approach to ensure traceable, verifiable, and complete (TVC) records for reconfirmation of maximum allowable operating pressure (MAOP). Combining advanced technology, domain knowledge, and decades of field experience, we bring safe data collection and testing with immediate results—without interrupting operations.



Systematic, phased approach for TVC records

Phase 1

- › Gap analysis
- › Creation + review of procedures for field data collection
- › Creation + review of training program for field data collection



Advanced technologies

- › Frontics Instrumented Indentation Technique (IIT)
- › MMT Hardness, Strength, and Ductility (HSD) Tester
- › Plastometrex profilometry-based indentation plastometry (PIP)

Phase 2

Nondestructive field collection of material properties

- › Grade: yield + ultimate tensile strength
- › Fracture toughness (KJc)
- › Seam toughness
- › Material toughness
- › Seam weld classification
- › Chemical analysis
- › Metallography
- › Hardness
- › Seam identification
- › Diameter

Phase 3

- › System MAOP reconfirmation
- › Expanded sampling program
- › Data integration + analytics