



IntegrityMap HCA™ Gas Analysis Tool

**Automated, Defensible and Audit-Ready
GIS Analysis for Pipeline Compliance
and Informed Asset Integrity Decisions**

Altamira's proprietary IntegrityMap HCA™ gas analysis tool provides a practical automated approach to evaluating gas and liquid pipeline class location, high consequence areas (HCAs), moderate consequence areas (MCAs) and gathering classifications. By integrating pipeline, structure and geographic information systems (GIS) intelligence into a single workflow, operators gain consistent, repeatable results that support regulatory compliance and integrity management decisions.

Built around federal pipeline regulations, the tool automates complex spatial analyses that have traditionally required significant manual effort. From class location determination and structure clustering to HCA identification and MCA screening, IntegrityMap HCA delivers defensible results supported by transparent methodologies and traceable data.

The result is a scalable solution that reduces analysis time, improves consistency across asset portfolios and generates audit-ready outputs that support both internal governance and regulatory review.

YOUR COMPETITIVE ADVANTAGE:



REGULATORY ALIGNMENT

Automated analyses aligned with applicable pipeline regulations and accepted industry methodologies.



DEFENSIBLE RESULTS

Repeatable workflows and transparent logic provide consistent classifications and documented assumptions.



GIS AUTOMATION

Reduce manual review and accelerate analysis through automated segmentation, classification and screening.



AUDIT-READY DELIVERABLES

Generate GIS layers, attribute tables, dashboards and documentation suitable for compliance support.

COMPLIANCE-DRIVEN PIPELINE RISK INTELLIGENCE

Supporting class location, HCA, MCA and gathering analyses through a repeatable GIS-driven workflow that transforms regulatory requirements into actionable asset intelligence.

WHAT WE DELIVER



CLASS LOCATION ANALYSIS

- Automated Structure Counting
- Pipeline Segmentation
- Class 1-4 Determination
- 49 CFR §192.5 Alignment



HCA IDENTIFICATION

- Method 1 Analysis
- Method 2 Analysis
- Population Screening
- Identified Site Evaluation



MCA ANALYSIS

- Moderate Consequence Screening
- Risk-Based Segmentation
- Expanded Impact Visibility
- Integrity Management Support



GATHERING & REPORTING

- Gathering Type Classification
- GIS Data Outputs
- Dashboard Reporting
- Audit-Ready Documentation

CONFIDENCE IN EVERY ANALYSIS

Whether evaluating existing assets, supporting integrity management programs or preparing for regulatory review, IntegrityMap HCA provides a consistent and defensible framework for class location, HCA, MCA and gathering analysis across the pipeline lifecycle.