ASTERRA

EarthWorks Dams and Levees

Stop Seepage Before It Sinks In

EarthWorks Dams and Levees is the world's first L-band SAR satellite-based solution for detecting subsurface soil moisture risks around dam and levee infrastructure. With patented technology and unmatched accuracy, EarthWorks delivers high-resolution insights into actual soil moisture levels, enabling early risk detection and supporting long-term resilience.

Long-Lasting Infrastructure Starts with EarthWorks Dams and Levees

Dams and levees don't fail overnight. Seepage and drainage issues are often spotted too late—when safety is at risk or repairs become costly. With our satellite view of subsurface risks, you can catch problems early and ensure your structures stand the test of time.

Why Choose EarthWorks Dams and Levees?

EarthWorks Dams and Levees gives you a system-wide view of moisture risks, enabling you to:

✳ **Maximize ROI** by preventing costly failures

✳ **Extend asset lifespan** by detecting issues early

✳ **Track moisture trends** to monitor changes for proactive decisions

Other Industries Served by EarthWorks

Rail | Roads | Mining | Property

Key Features

Trend Analysis
Monitor moisture changes over time

Alert & Alarm Grid
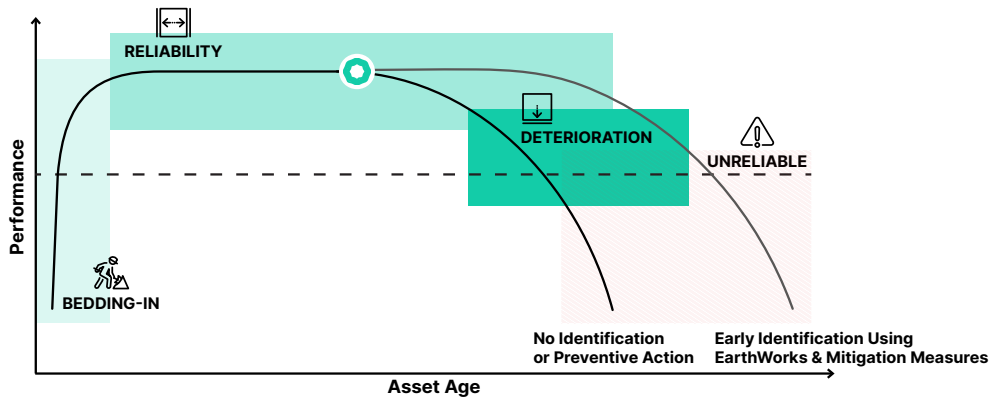Categorize at-risk areas to identify sections that need closer inspection

Mobile-Optimized Reporting
Access digital reports on the go via mobile apps for faster response times

ASTERRA EarthWorks Contributes to Extended Asset Lifespan

Performance (y-axis)

Asset Age (x-axis)

RELIABILITY

DETERIORATION

UNRELIABLE

BEDDING-IN

No Identification or Preventive Action

Early Identification Using EarthWorks & Mitigation Measures

Something for Everyone

EarthWorks Dams and Levees serves every level of your organization. From decision-makers seeking to extend dam and levee lifespan, to managers improving efficiency, to field crews evaluating structural integrity—our solution meets the needs of all teams.
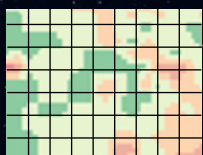
How it Works

1 Provide Your Map
Share your area of interest

2 Grid Division
We'll break it down into smaller sections

3 Prioritize Risks
Define high-risk zones with our guidance

4 Track Moisture Trends
EarthWorks monitors moisture changes over time

5 Act on Insights
Receive targeted insights for informed action

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For more information: inquiry@asterra.io