



OVERCOMING REMEDIATION CHALLENGES:

Introducing the Remediation Management of Complex Sites Guidance



Interstate Technology & Regulatory Council



Remediation Management of Complex Sites Team



Who is ITRC?

The ITRC is a national coalition focused on developing tools and strategies to reduce interstate barriers to the deployment of innovative environmental technologies. ITRC members include representatives from government agencies, the private sector, academia, and the public.

Why did we develop this document?

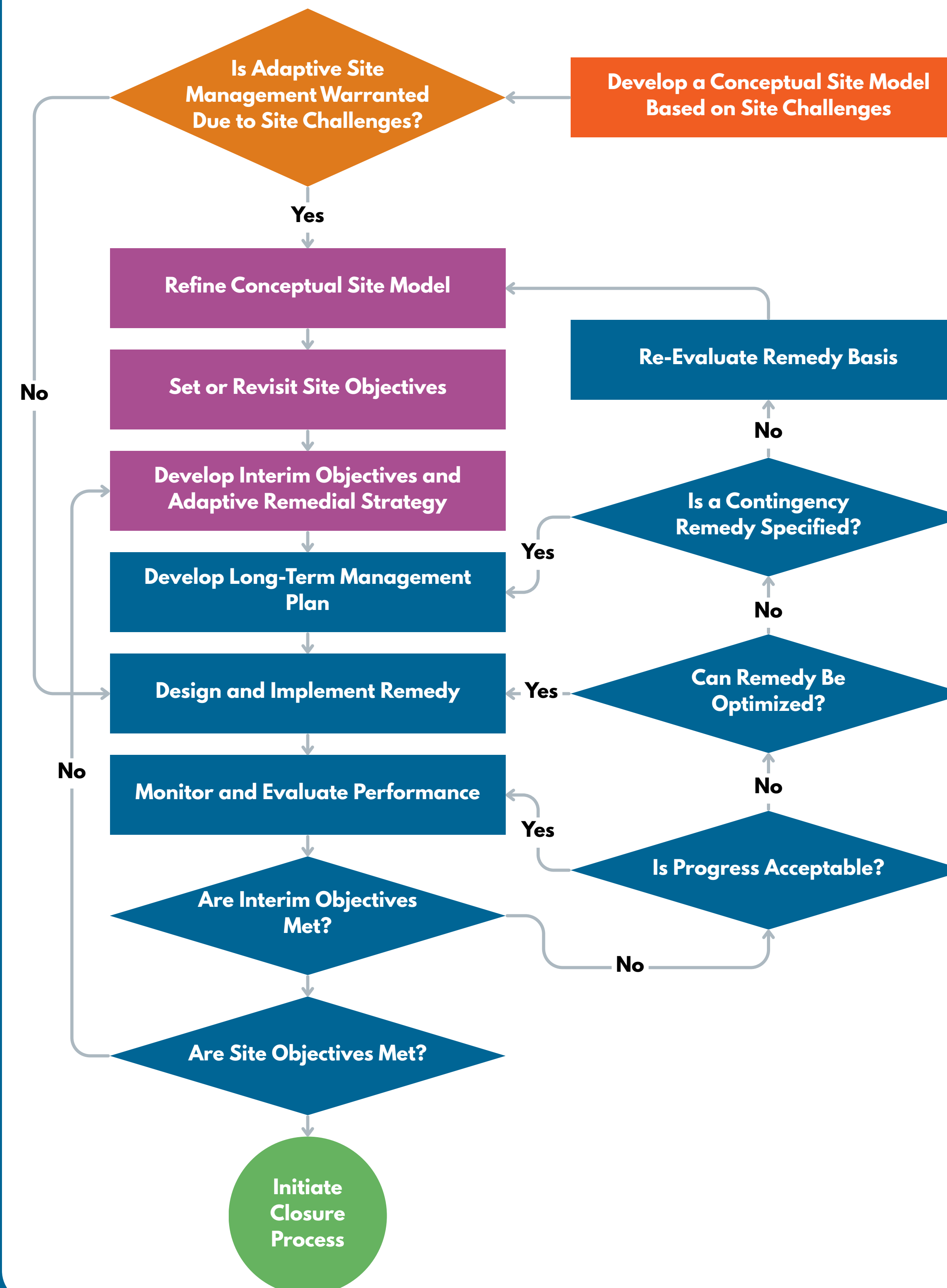
To improve decision-making and outcomes for regulators, responsible parties, and consultants working at complex sites.

What is a Complex Site ?

A **complex site** is a site where remedial approaches are not anticipated to bring the site to closure or facilitate transitioning to sustainable long-term management within a reasonable time frame.

What does this Guidance include?

- Introduction to adaptive site management
- Technical and nontechnical challenges at complex sites
- Step-by-step process for integrating technical and nontechnical challenges into planning
- Remediation Potential Assessment tool to determine when adaptive site management is appropriate
- Performance-based long-term planning strategies
- Stakeholder engagement strategies



Adaptive Site Management Steps

Identify Challenges within the Context of the Conceptual Site Model (CSM)

Assess both technical (geologic, geochemical, surface constraints, etc.) and nontechnical (timelines, funding, regulations, etc.) challenges that may affect remediation.

Conduct a Remediation Potential Assessment

Evaluate whether achieving site objectives is feasible within a reasonable timeframe. Consider the effectiveness, feasibility, and cost of remedial approaches, with different questions provided for pre- or post-remedy implementation.

Refine the CSM

Update the CSM using information gained from site investigations and remedial performance.

Set or Revisit Site Objectives

Define long-term remedial goals, such as meeting regulatory requirements, achieving target contaminant levels, and restoring impacted media

Develop Interim Objectives and Adaptive Remedial Strategy

Establish milestones to track progress toward site objectives.

Develop a Long-Term Management Plan

Plan for ongoing oversight and protection, including performance metrics, risk tracking, and mitigation strategies.

Learn More:

<https://rmcs-1.itrcweb.org/>