

# RISK ASSESSMENT

USING INDUSTRY-LEADING RISK METHODOLOGY TO REDUCE ENVIRONMENTAL IMPACT, COSTS, AND TIME.



## SITE SPECIFIC RISK ASSESSMENT EXPERTS

Whether simple or complex, the Risk Assessment team at 360 achieves site-specific guidelines for our clients, reducing the requirement for remediation while still providing adequate protection of relevant human and ecological receptors.

Site Specific Risk Assessment (SSRA) reduces the environmental footprint of a site compared to typical remediation practices. By conducting a thorough assessment and understanding the specific risks and conditions of the site, SSRA allows for targeted and optimized remediation efforts. This can lead to a reduction in remediation volume, minimizing the need for transport, landfill, and mechanical remediation of soil. As a result, potential emissions from equipment and trucks are reduced, which positively impacts your ESG efforts.



## RISK ASSESSMENT SERVICES

- Site Specific Guideline Development
- Human Health Risk Assessment
- Ecological Risk Assessment
- Risk Management Plans
- Remediation Action Plans
- Tier 2A, Tier 2B, and Tier 2C Subsoil Salinity Tool Assessments
- Remediation Feasibility Assessments
- Site Specific Liability Assessments

## PROJECT SPOTLIGHT



Case Study: 1950s Wellsite Remediation

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360 successfully remediated a wellsite drilled in the 1950s, addressing significant contamination from petroleum hydrocarbons, polycyclic aromatic hydrocarbons, and metals. The site included a flare pit, two drilling waste disposal areas, and additional contaminated pits. Using a phased approach, over 8,800 m<sup>3</sup> of highly impacted soil was treated on-site with a Reterra soil recycler, meeting Class II landfill criteria and reducing disposal costs. Low-level impacted soils were also treated and reused as backfill.

A comprehensive analysis confirmed that elevated chloride levels in shallow groundwater were unrelated to historical oil and gas activities. This finding contributed to the approval of the Record of Site Condition by the Alberta Energy Regulator, ensuring the site's regulatory closure.