

# Risk Assessment



**INTEGRATED TOOLS — AECOM uses fate and transport modeling tools, GIS visualization and risk assessment modeling to effectively identify potential strategies for risk reduction and remedial cost-savings.**

## Areas of Expertise

- Ecological Risk Assessment
- Human Health Risk Assessment
- Site Investigation/Remediation Risk Assessment
- Risk-Based Corrective Action (RBCA)
- Hazardous Waste Combustion Risk Assessment
- Toxicology/Hazard Assessment
- Air Toxics/Residual Risk Assessment
- Natural Resource Damage Assessment
- Environmental Impact Assessment
- Expert Witness/Litigation Support
- Risk Communication/Public Involvement
- Product Stewardship
- Multi-Pathway Risk Assessment

## More Information

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## Overview

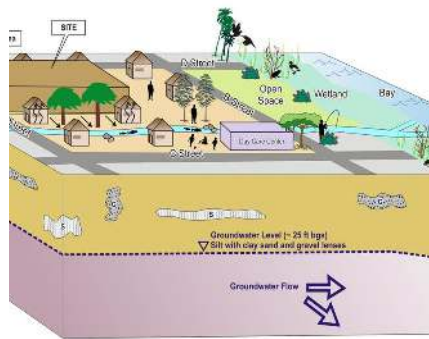
Risk assessment is a critical tool in the management of environmental liability. It can be used to answer critical questions such as:

- Do complete exposure pathways exist? Are measures necessary and available to reduce the risk? What are the optimal remedial strategies?
- How can risk reduction be optimized?

## Our Approach

Using risk assessment techniques, we can help you to:

- **FOCUS** and **IMPROVE** the efficiency of environmental sampling/monitoring
- **AVOID** the collection of excessive and unusable data
- **PREVENT** unnecessary and ineffective remediation/pollution control
- **JUSTIFY** alternate cleanup levels
- **IDENTIFY** and **MINIMIZE** environmental liability
- **PROMOTE** site redevelopment and use
- **PRIORITIZE** investigation/research/risk-reduction efforts
- **IMPROVE** communication among industry, government and the public
- **ALLEVIATE** public concern about environmental exposures when concern is unwarranted
- **PROVIDE** technically sound negotiating positions



## Key Attributes

- Our nationwide and international practice brings you local knowledge and leadership with access to a large network of technical specialists in multiple disciplines.
  - A track record for obtaining site-specific, risk-based cleanup levels that are higher than default-screening levels.
  - Ensuring appropriate data are obtained to make environmental decisions, which has saved clients millions of dollars.
  - Ability to customize the site-specific assessment.
  - Experience for a broad range of sources and constituents, including jet fuels, diesel and other petroleum hydrocarbons, solvents, metals, pesticides, asbestos, dioxins, PCBs, munitions, chemical warfare agents and radionuclides.
  - Proven track record of successfully working with Federal and State regulators.
- We have particular expertise in:
- Biota sampling and analysis
  - Development of ecological toxicity values
  - Exposure modeling
  - Ecological surveys and field studies
  - Chemical fate and transport modeling
  - Vapor intrusion modeling and risk
  - Geographic Information Systems (GIS)
  - Statistical design including probabilistic methods
  - Regulatory support
  - Contaminated sediments (including sediment triad approach)
  - Emerging chemicals
  - Toxicity and bioaccumulation testing
  - Bird exposure to lead pellets
  - RESRAD-BIOTA