

# LANGAN SEDIMENT REMEDIATION



## SEDIMENT CHARACTERIZATION AND REMEDIATION SOLUTIONS

Langan's interdisciplinary approach to sediment remediation integrates the depth of technical capabilities required to navigate these complex projects. Our team includes experts in ecological and human health risk assessment, environmental geochemistry, remediation technology, geotechnical engineering, regulatory compliance, and environmental engineering.

As a strong environmental advocate for our clients, Langan provides full support across the entire project lifecycle, from planning to sediment investigation, design, implementation, and regulatory support.

## SCOPING AND PLANNING

Langan understands that success starts with thorough planning to determine the practicality of remediating and redeveloping contaminated property. Our scoping and planning services help clients:

- Assess the cost and complexity of remediation through feasibility analyses
- Identify the technical, financial, and regulatory challenges of proposed remediation projects
- Develop a plan that promotes efficient use of resources and technology by evaluating cost-effective alternatives





## SITE CHARACTERIZATION AND RISK ASSESSMENT PROGRAM'S UNIQUE OFFERINGS INCLUDE:

Legacy contamination affects many of our nation's urban waterways. Contaminants like mercury and polychlorinated biphenyls (PCBs) behave in unique ways, with varying rates of biological uptake and environmental mobility. Sediments themselves are also mobile and evolving, making it difficult to differentiate contamination sources.

A site-specific evaluation is critical to reducing remediation costs, both in terms of redevelopment and in response to regulatory actions. Langan's sediment characterization and risk assessment capabilities include:

- Sampling and analysis to determine the extent of contamination and characterize geochemistry
- Developing conceptual site models to evaluate contaminant fate and transport
- Integrating biological, chemical and physical data to assess potential risks to the environment and human health



## REMEDIATION DESIGN AND IMPLEMENTATION

Langan has a successful track record implementing complex, innovative remediation designs in various types of waterways and wetland settings.

Restoring contaminated properties to productive use calls for a team approach that brings together:

- In-house laboratory experts to conduct treatability studies and create targeted, cost-effective remediation plans
- Design strategies that focus on sustainable risk management and proven remediation methods to achieve restoration and redevelopment goals
- Remediation technology teams with experience handling the complexities of methods like in-situ capping, dredging and excavation, and monitored natural recovery

## FOR MORE INFORMATION ON LANGAN'S SEDIMENT REMEDIATION PRACTICE, CONTACT:

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