

## **Optimization and Sustainability: Experiences from Applications**

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The development of a long-term, site-specific remedial strategy and the detailed assessment of remedy design have been focal points of recent optimization efforts. Encouraging project teams to consider the roadmap for the site to reach the intended end points has been a common outcome of the optimization studies. Communicating the agencies' programmatic goals for attainment of site closure to the project teams is important. Site-specific modeling has been playing an increasing role in developing strategies and assessing design. The resulting optimization recommendations provide opportunities to improve protectiveness, reduce cost over the project life cycle, accelerate site closure, and reduce the environmental footprint. Case studies are presented that provide examples of site-specific strategies and improvements in remedy design. The use of modeling is highlighted, and the estimated environmental footprint reductions are provided.