



# Conceptual Remediation Strategies

A passive treatment system would require access roads for construction and maintenance. A series of wetlands would also be constructed at each mine site.

The maintenance requirements for a passive treatment system are less than the requirements for an active treatment system.



## Passive Treatment System

- A passive treatment system is a mitigation and treatment option that involves using natural, chemical, and biological processes to reduce metal concentrations and neutralize excess acidity.
- Passive treatment systems typically consist of a series of constructed wetlands that treat contaminated mine drainage at the discharge point. Passive systems require cleaning every two to three years.
- A passive treatment system collects contaminated water as it flows out of the abandoned coal mine and treats the water through a series of constructed wetlands. These wetlands consists of organic substrate layers that are placed over a limestone layer that acts as a filter, removing metal concentrations, and neutralizing the acid found in the contaminated water.