

EnviroBlend[®] has extensive knowledge of the fate and transport of heavy metal contamination, as well as remedial action experience. Our scientists have spent years developing cost-effective chemistries for rendering lead, cadmium, arsenic, hexavalent chromium, zinc and other heavy metal contaminants non-hazardous. This research has resulted in a number of patented products that have been widely applied for heavy metal remediation sites across the country.

Callahan Mine Superfund - Maine

The Callahan Mine Superfund Site is the location of a 150-acre former zinc/copper open-pit mine adjacent to a residential neighborhood. Charter executed remediation of OU1 to address mine contamination (lead, arsenic, and PCBs) present in the residential use area. Lead, arsenic, and PCBs were discovered to exceed acceptable levels for human contact and long-term exposure. The mine ore pad was the source of significant groundwater contamination.

Project Highlights

- On-site treatment with EnviroBlend of 3,000 tons of TCLP-failed lead mine waste prior to off-site disposal
- Excavate and relocate metal-impacted soils from residential properties: 5,000 cubic yards of lead and arsenic-contaminated soil removed
- Excavate, stockpile, characterize and dispose of PCB contamination: 15,000 tons of PCB impacted soils
- Total of 65,000 tons of contaminated soil excavated and staged
- 22,000 cubic yards of ore material relocated and installed as a multi-layer soil and geotextile cap to cover <10ppm PCBs
- Site improvements to minimize discharge runoff