

**Summary of Alternatives for the
Management of Materials at the CSMRI Site**

Alternative 1 - No Action/Institutional Controls - Alternative 1 provides a comparative baseline against which other alternatives can be evaluated. Under Alternative 1, the affected soils would remain as is without any removal, treatment, containment, or mitigating technologies being implemented. Only institutional controls would be implemented. Institutional controls are items that limit the accessibility of the Site. Items may be physical barriers such as fencing, signs, monitoring and surveillance systems, or deed restrictions put on the land so that it may not be used for activities that would disturb the affected material. Institutional controls will be used to limit the accessibility of a site where no work was performed (no action).

Alternative 2 - In-Place Closure - This alternative leaves the material in the same location that includes an in-place closure with a capping system and a subsurface vertical barrier (slurry wall) to prevent contamination of ground water.

Alternative 3 – Below Ground Repository with Waste Stabilization/Solidification - This alternative includes the development of a below-grade engineered repository at the Site. It also includes treatment of the waste prior to placement using a mixture of cement and fly ash for stabilization/solidification to reduce toxicity and mobility of the contaminants.

Alternative 4 – Disposal at Conservation Services, Inc. (CSI) - Under this alternative, certain areas of the Site would be designated for excavation and disposal at the CSI facility located in Bennett, Colorado, approximately 50 miles northeast of the Site. Transport of affected material to the CSI facility would be accomplished by trucking. An Excavation Plan that shows the delineation of designated areas will be presented in the Work Plan. Under this alternative, it is anticipated that 10,000 cubic yards (CY) of material would be disposed of at CSI.

Alternative 5 – Disposal at BFI Foothills Landfill - Under this alternative, certain areas of the Site would be designated for excavation and disposal at the BFI Foothills Landfill located in Golden, Colorado, on State Highway 93 approximately 6 miles north of the Site. Transport of affected material to the BFI facility would be accomplished by trucking. An Excavation Plan that shows the delineation of designated areas will be presented in the Work Plan. Under this alternative, it is anticipated that 10,000 CY of material would be disposed of at BFI.

Alternative 6 - Disposal at BFI and US Ecology - Under this alternative, certain areas of the Site would be designated for excavation and disposal at the US Ecology Idaho Facility, and the remainder of the Site would be designated for excavation, and disposal at the BFI Facility. An Excavation Plan that shows the delineation of designated areas will be presented in the Work Plan. Under this alternative, it is anticipated that 500 CY of material exhibiting radioactivity above background would be disposed of at US Ecology Idaho and 9,500 CY of solid waste material containing metals would be disposed of at BFI.

Alternative 7 - Disposal at CSI and US Ecology - Under this alternative, certain areas of the Site would be designated for excavation and disposal at the US Ecology Idaho Facility, and the remainder of the Site would be designated for excavation, and disposal at the CSI Facility. An Excavation Plan that shows the delineation of designated areas will be presented in the Work Plan. Under this alternative, it is anticipated that 500 CY of material exhibiting radioactivity above background would be disposed of at US Ecology Idaho and 9,500 CY of solid waste material containing metals would be disposed of at CSI.

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