

Technology

Process Options

Implementation

Technically Feasible?

Chemical Hazard

Excavation and disposal

Hazard Waste Landfill → Dispose soils in a permitted Landfill
Solid Waste Landfill → Dispose soils in a permitted Landfill
Demolition Waste Landfill → Dispose soils in a permitted Landfill

Solidification/stabilization

Portland Cement → Add cement to soils
Thermo Plastic → Add asphalt to soils
Encapsulation → Add organic resin to soils

Recycling

To Lead Smelter →
To Cement Kiln →

Volume Reduction

Sieving & Screening → Remove specific particle sizes of soil
Microbial Degradation → Use microbes to breakdown contaminants
Phytoremediation → Use plants to remove contaminants
Natural attenuation → Place soils to allow natural processes to occur
Volatilization → Place soils to allow volatilization to occur
Pump and Treat → Pump out groundwater and treat at surface

Yes/No
Yes/No
Yes/No
Yes/No
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Yes/No
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Yes/No
Yes/No
Yes/No

Pathway

Access Restriction

Ban hunting and fishing → Use local laws to prevent people from hunting & fishing

Personnal Protective equipment

Respirator →
Gloves/Coveralls →

Cap/Cover

Clean Soil Cover → Place clean soils over contaminated soils
Vegetation Soil Cover → Grow plants over contaminated soils
Clay Cap → Place a layer of clay over contaminated soils
Asphalt Cap → Place a layer of asphalt over contaminated
Membrane Cap/Cover → Place a layer of plastic material over contaminated soils
Multi-media Cap → Use more than one cap type

Dust Control

Water Spray → Keep soils wet
Dust Suppressants → Add chemical which prevent dust
Wind Fence → Build fence to block winds
Plastic Cover → Place plastic cover over contaminated soils
Vegetation → Grow plants over contaminated soils

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Receptor

Access Restriction

Fence → Build fence around contaminated soils
Warning Signs → Put up warning signs around contaminated soils
Land Use Restrictions → Use local laws to restrict use of contaminated lands

Yes/No
Yes/No
Yes/No