



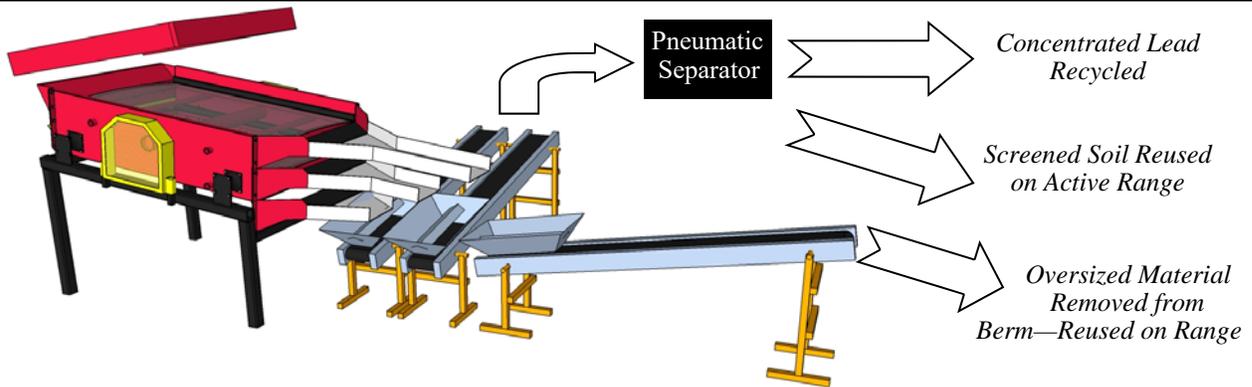
Firing Range Services

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Small Arms Range Services

FRS has developed an efficient screening and pneumatic process for removing lead from outdoor small arms ranges. Designed specifically to work in challenging soils—our system allows cost effective recovery of spent lead bullets, shot and fragments in soil types ranging from clay to glacial till. Our recovery process allows existing range materials to be recycled for continued use on active ranges, or stabilized to regulatory compliance levels for range closures. Revenue generated by recycling lead can help small arms ranges offset costs of range maintenance.

Process



Key Concepts and Features

- **Lead is a revenue source for small arms ranges**

Range material can contain from 10% to 40% lead by weight—depending on years of use since last screening and types of use (rifle/pistol vs. shotgun). 100 cubic yards of material at 10% concentration will contain approximately 27,000 lbs of lead, with the potential to generate several thousand dollars to offset maintenance costs. FRS will buy the lead at a percentage of current recycling rate with allowances for packaging and transport of lead to a recycler.

- **Regular recovery of spent lead improves safety and reduces environmental hazards**

Regular removal of high lead concentrations is a statement of goodwill from ranges to their neighbors—bolstering community acceptance and enhancing public relations.

- **Screened berm material can improve berm performance and reduce future maintenance costs**

The FRS process reclassifies berm material into multiple sizes—allowing the range the discretion to reuse aggregate outside of the berm. Replacing aggregate or clays with sand or rubber will allow future maintenance actions to recover lead much faster—generating more revenue from recycling.

- **Stabilizing screened berm material for transport offsite or for range closure is more effective and less expensive.**

The Castle-Rose process can remove lead down to 10 mesh (1/10th of an inch) for range closures. Soils containing 10 mesh or smaller particles can then be stabilized with soil amendments for long term environmental compliance at a fraction of the cost of hazardous material disposal.

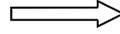
Ask Us About
Additional
Services, Such
as Range
Stewardship
Plans or Trap
and Facility
Improvements



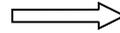
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Cowlitz County Sheriff

Before & After



Oregon State Police



*Complex
Traps &
Large-scale
Ranges*



Finished Range showing protected structures and vegetation



Large project—over 1000 cubic yards of material processed in less than two weeks