Project Name:	**Baton Rouge Police Department Pistol Range**
Project Location:	**Baton Rouge, Louisiana**
Project Completion Date:	**October 2000**
Project Duration:	**4 Weeks**
Project Value:	**$150,000**
Client Name:	**Baton Rouge Police Department**
Client Contact:	**Mr. Chester Ladner**
Client Phone Number:	**(225) 389-5209**
Technology Utilized:	**Separation and Soil Stabilization**

Project Description

SEMS was contracted to provide remediation services at the Baton Rouge Police Department Pistol Range. The facility had been in operation for more than 30 years, during which time approximately 11 million rounds of ammunition were discharged. The lead from the spent rounds was contained in an earthen berm. Lead contamination, in the soil, had greatly exceeded hazardous levels and removal was required.

The technical aspects of the project required

- The excavation of the berm to remove the lead bearing areas,
- The removal of the bullets from the soil for recycling,
- The stabilization of the lead contaminated soil with an admixture of portland cement, and
- The disposal of the soil in a non-hazardous landfill after the stabilization process reduced the levels of leachable lead contamination to non-hazardous levels.

Approximately 750 cubic yards of in place soil was excavated and processed. The bullets were separated from the soil using a roller mill and trommel screen. The soil was stabilized using a pug mill with a cement silo. The entire operation was controlled with feed hoppers and belt conveyors to minimize spillage and to limit personnel to potentially harmful dust. The process resulted in 1100 tons of stabilized soil being delivered to the landfill and in excess of 100 tons of bullets being delivered to a lead recycling facility. Personal and perimeter air monitoring ensured worker safety and provided qualitative results to demonstrate that no offsite migration of lead dust occurred during the operation.