

PROJECT PROFILE - LAGOON CLOSURE PROJECT

Columbus, OH

February 1999 - February 2005



Synopsis:

SCE was contracted to provide closure services of a RCRA Solid Waste Management Unit (SWMU) in Columbus, OH in several Phases over a six (6) year period. Approximately 7-acres of the 55-acre property had been impacted by a former chemical processing operation. An on-site SWMU held approximately 30,000 CY of contaminated material that was posing an immediate risk to a nearby creek.

SCE excavated in excess of 29,300 CY of lead-contaminated and F-Listed waste from the SWMU. A nearby roadway was shored to allow undermine excavation activities. Hazardous and non-hazardous waste streams were segregated utilizing on site cell construction. SCE placed and compacted 115,310 CY of backfill material in accordance with the pond abandonment plan. In addition, SCE self-performed the installation of a series of diversion trenches and storm water management channels along with a sanitary sewer and water main during phase 4 of the Project.

SCE performed a cost analysis of disposal options and demonstrated to the Client that the lowest cost option would be onsite stabilization, thereby allowing disposal as a non-hazardous waste. A total of 8,760 tons of lead contaminated waste was segregated, collected, stabilized and disposed at an offsite non-hazardous landfill. As part of the process, forty-five batches of waste were stabilized and not a single post-stabilization sample exceeded the TCLP lead hazardous waste threshold of 5 mg/L.

Several significant unexpected conditions were encountered in the field, each threatening a project delay or cost overrun. SCE worked in partnership with the Client to address each of the conditions, and completed the project on schedule and within the original budget.

The onsite stabilization approach represented a savings in excess of \$1,100,000 compared to the transportation and disposal of unstabilized hazardous waste. Even though no treatability data existed, SCE was able to select the best overall process for stabilization (phosphate based reagent) because of our extensive experience with performing onsite stabilization of metals-contaminated soils. To account for uncertainties in lead concentrations, a conservative dosage rate (4% by weight) of reagent was applied.

SERVICES PROVIDED

- Lagoon Stabilization and Closure
- Soil Excavation



SCE ENVIRONMENTAL GROUP, INC.