

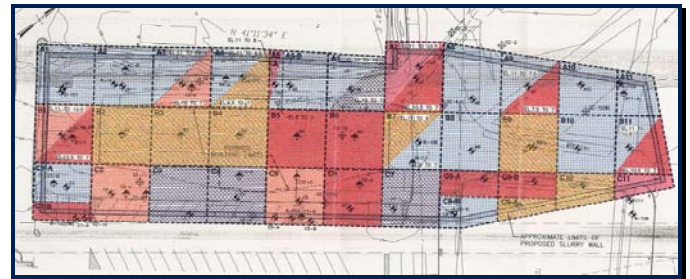


**Merck Boston Research Center  
Boston, MA  
\$2,800,000**



Charter successfully treated the soil without any work slow-down/stoppage that could have occurred due to working concurrently with the extensive construction process. By employing innovative, adaptive work sequences and scheduling around multiple contractors during construction of the building's foundation and erection of the structural steel member, Charter saved \$1M in project dollars.

The site for the new Merck Pharmaceuticals Boston Research Center was located in the historic Longwood section in the City of Boston. In support of the mass excavation removal of over 90,000 tons of contaminated soil, Charter provided complete soils management services starting with face-to-face QA/QC disposal facility audits with a Merck Representative. Charter worked directly with Merck and their consulting staff in conducting the pre-approval processing and audits of over 9 different disposal facilities. Charter provided on-site coordination and trucking of up to 6 different soil disposal types daily, on-site treatment and discharge of contaminated groundwater, and in-situ stabilization of RCRA hazardous TCLP-Lead failed soil using chemical reagents at depths up to 40 ft.



To ensure success of this complex process of treating the RCRA hazardous TCLP-Lead failed soil embedded in various vertical and horizontal layers, Charter proposed and implemented an in-situ treatment process utilizing a dry type reagent which could be applied in specific doses to each area of contamination. The selection of this reagent allowed for the successful in-situ treatment and physical stabilization of the soil prior to removal, stockpiling, and post-treatment confirmatory sampling where altogether 5,500 tons of previously characterized RCRA hazardous soils were treated and shipped as non-hazardous soil.