

Former School Site – Southern New Jersey

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Technology Used

Direct Push Unit
Direct-Sensing: E-Conductivity
Pre-Packed Well Screens
XRF

Analysis Performed

Fixed base and portable XRF

Matrix of Concern

Soil
Groundwater

Primary Contaminants of Concern

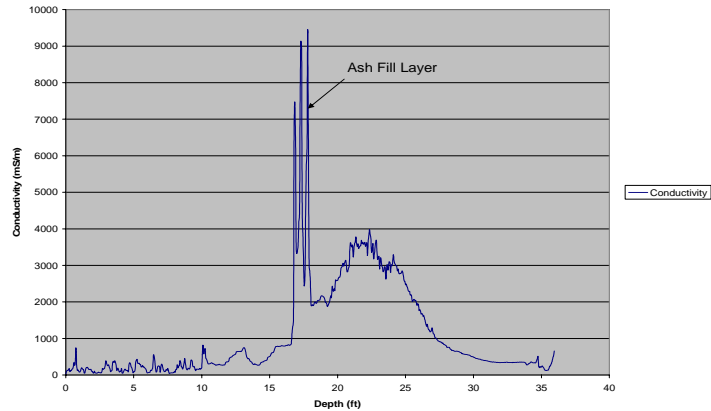
Arsenic

Period of Work

Six Days, December 2005

Summary

XRF Samples Analyzed:	86
E-Conductivity Locations:	54
Pre-Packed Wells:	4
Temporary PVC Piezometers	6



Project Summary

Site Description

Former school building located in an urban area in Southern, NJ.

Project Description

Previous sampling events, by various companies, indicated Arsenic contamination throughout the site. After reviewing the previous data, S₂C₂ recommended an approach that included using an e-conductivity probe to determine soil lithology and to locate potential fill layers in the subsurface. Soil samples were then collected based upon the conductivity logs and analyzed using a hand-held XRF. Soil samples were also sent off-site to be analyzed using a laboratory grade XRF and also for Category I analysis using ICP/MS. Temporary piezometers were installed to determine groundwater flow and pre-packed wells were installed for groundwater sampling.

Project Results

S₂C₂ was able to locate multiple layers of fill and a former river channel that was filled in during the early 1900s using the e-conductivity probe. XRF samples indicated that the Arsenic was contained in specific fill zones and in the former river channel. S₂C₂ characterized the Arsenic in the soil and proved that the groundwater was not impacted outside of the former river channel boundaries.

S₂C₂ inc.

Streamlined Site Characterization & Closure