

Site Description

The site is an active, multi-cell, industrial waste landfill covering an area of approximately 275 acres in a rural, residential area of western North Carolina. Groundwater and surface of a creek and an adjacent river are monitored semi-annually in accordance with the facility's solid waste permit. The monitoring network consists of 21 groundwater monitoring wells and six surface water sampling stations.

Rogers & Callcott Services and Results

Rogers & Callcott has been monitoring the groundwater and surface water quality at the site since 2005 and maintains the reporting requirements for NCDENR. Six surface water, 21 monitoring wells, one spring and landfill leachate grab samples are collected semi-annually. Sampling is conducted by Rogers & Callcott's certified sampling team using standard purge and low flow methods in accordance with EPA's Standard Operating Procedures. The samples are analyzed at our certified laboratory in Greenville, South Carolina for various metals, nutrients and indicator parameters consistent with the solid waste permit.

All laboratory results are reported in a detailed electronic format. Analytical results are compared with historic data for every monitoring event. The results are compiled into a historic comprehensive database which contains aerial photography, water elevation, water quality data, and well construction information. Groundwater potentiometric maps and water quality maps are automatically generated for any desired parameter and period of time.

To supplement the standard analytical reports, Rogers & Callcott supplies semi-annual data in a GIS format. GIS provides a spatial framework to organize, analyze, and map spatial and historical data; to find patterns and relationships that were previously unrecognizable. This in turn gives the client a deeper understanding of the issues they face and provides them more information in a timely and cost-effective manner.

