



Project Name: Soil and Groundwater Remediation Using Soil Vapor Extraction/Air Sparging

Client: Confidential

Agency: California Regional Water Quality Control Board

Location: El Monte, California

Chemicals of Concern: Free Phased and Dissolved TPH, BTEX, and Fuel Oxygenates

Project Goal

The goal of this project was to develop and implement a soil and groundwater remediation plan that appropriately characterized the release of fuel hydrocarbons beneath the site and identified a treatment program for site closure in less than three years.

Waterstone's Role

Waterstone directed the soil and groundwater remediation, conducted quarterly groundwater sampling and reporting, and coordinated the site closure process with regulatory agencies. Once free product was removed from the groundwater using vapor extraction, Waterstone initiated air sparging on selected areas of Site with elevated dissolved phase concentrations of volatile hydrocarbon compounds.

Project Challenges and Successes

Challenges encountered during this project included the presence of free-floating product in two on-site groundwater wells and the characteristics of the groundwater bearing zones which were under non- confining conditions. Despite this, the hydrocarbon concentrations in soil and groundwater beneath the Site were reduced to near detection levels for all targeted gasoline hydrocarbon in less than 24 months, a full year ahead of the desired date. Site closure was subsequently received from the Regional Water Quality Control Board. Waterstone also obtained reimbursement for the client's project remediation costs from the California Underground Storage Tank Fund.