

An In-Situ Chemical Oxidation (ISCO) application was performed using sodium persulfate activated with hydrogen peroxide. Target compounds were MTBE (methyl tertiary-butyl ether) and TBA (tertiary-butyl alcohol) from an adjacent underground storage tank (UST) release. The contamination had impacted nearby private wells screened in the Ocala Limestone Unit of the Floridan Aquifer. Exo Tech, Inc. was contracted to perform an ISCO injection treatment prior to subsequent abandonment of one of the private wells impacted. Persulfate was chosen due to its longer residence time to allow more effective treatment of the MTBE and TBA compounds which are more recalcitrant than BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes).

The scope of work involved the installation of 10 injection wells around the plume. The sodium persulfate and hydrogen peroxide blend was pumped under low pressure into the injection wells. Confirmatory sampling was not performed by the client or required by Georgia EPD.

Follow up treatability testing was performed to evaluate the use of ISCO on the remainder of the Site. Although the findings indicated favorable results, Exo Tech understands that soil excavation and offsite disposal was performed in-lieu of ISCO treatment.



Injection Well layout around private well



Exo Tech crew mixing chemical