



## Aquifer Solutions Completes 2,000' Long BioBarrier for Groundwater Treatment of High Explosives, TCE, and Chromium

June 12, 2008. Design-build environmental services provider Aquifer Solutions, Inc. ([www.aquifersolutions.com](http://www.aquifersolutions.com)), based in Evergreen, Colorado, presented a paper last month at the 6<sup>th</sup> International Conference on Remediation of Chlorinated and Recalcitrant Compounds, in Monterey, California, describing the design-build construction of a 2,000



foot long in-situ bioremediation reactive barrier for treatment of high explosives (RDX, TNT, and others), chromium, and TCE in groundwater.

This is one of the largest bioremediation reactive barriers installed the U.S., if not the largest in the world, involving three separate rows of passive barrier wells with a total combined length of three-quarters of a mile. The project is located at a U.S. federal facility in Texas.

The reactive barrier uses bioremediation technology, where indigenous soil microbes are stimulated using a carbon-based amendment. In this case, an emulsified vegetable oil product was selected for the application. The indigenous soil microbes consume the amendment, creating anaerobic conditions which allow the biodegradation of the target contaminants.

Aquifer Solutions executed the project with zero-accidents; while successfully completing over 2½ miles of drilling to a depth of 300', installation of over 2 miles of buried pipeline, and the mixing and injection of 0.9 million gallons of bioremediation amendment. Operation and maintenance of the biobarrier will be ongoing in the future.

Aquifer Solutions is an international leader in environmental restoration, with a growing construction business. The company has offices in Colorado and California and has worked in 16 states in the U.S. as well as Canada, Mexico, and Australia. Aquifer Solutions clients include private firms, government, law firms, and consultant partners.



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