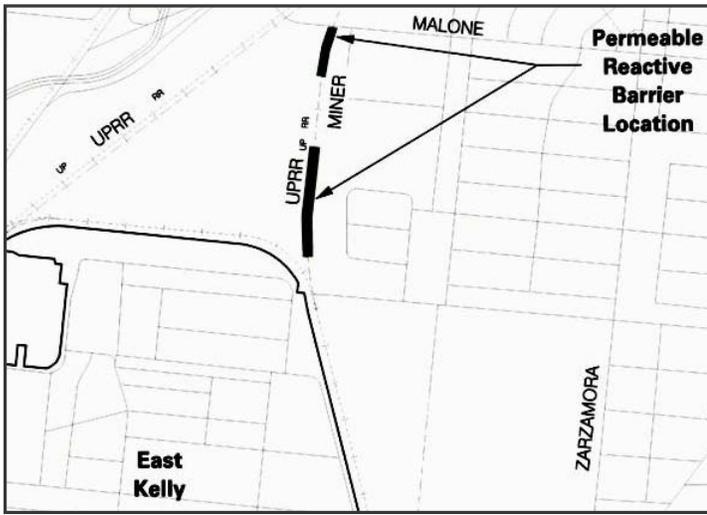




March 2004

## Community Bulletin

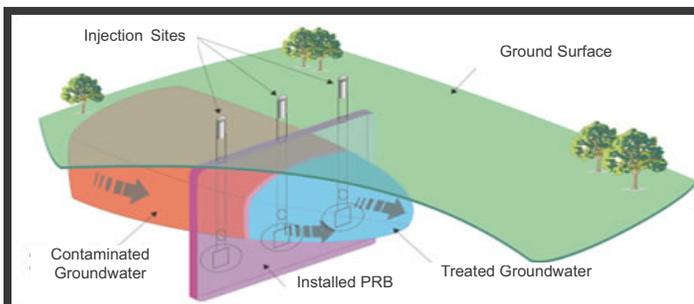
# PRB Installation south of Malone Street



*The site of the two PRBs.*

The Air Force plans to install one permeable reactive barrier (PRB) in two sections on Union Pacific Railroad (UPRR) property south of Malone Street this year. The Air Force has asked UPRR for permission to build the PRB on their property. The project should be finished this May.

This PRB will be made using iron fillings that will treat contaminated groundwater underground. The iron fillings will be injected into the ground. Perchloroethylene (PCE) and trichloroethylene (TCE)



*Courtesy of Geosierra LLC.*

*Conceptual Model of the PRB Injection Technique.*

### Have Questions About the Environmental Cleanup Program at Kelly?

We've Got Answers!

The AFRPA is dedicated to involving the community in the cleanup of the former Kelly AFB. If you have any questions, please call the AFRPA Information Line at (210) 925-0956, visit the Kelly Web site at <http://www.afropa.hq.af.mil/kelly/>, or drop us a line at our new address:  
143 Billy Mitchell Blvd., Suite 1  
San Antonio, Texas 78226-1816

are solvents that were used at Kelly to maintain aircraft. The goal of this PRB is to bring the levels of the solvents, and their breakdown products, 1,2-dichloroethene (DCE) and vinyl chloride (VC) in the shallow groundwater to drinking water standards. When the solvents come into contact with the iron fillings, they begin to breakdown into carbon dioxide, ethene, and chloride, which occur commonly in the groundwater near Kelly.

The shallow groundwater is not a source of drinking water. It is separated from the Edwards Aquifer by more than 1,000 feet of rock and clay.

If Union Pacific Railroad gives the Air Force permission, the PRB will be built in two sections. One section will be about 500 feet long and about 45 feet deep. It will be located along the railroad tracks about 15 feet south of Malone Street. Section two will be about 1,000 feet long and 45 feet deep. It will be located along the railroad tracks just north of East Kelly. Once the PRB has been built, it will not be visible.

The Air Force will also be working with the San Antonio Metropolitan Health District's (SAMHD's) Public Center for Environmental Health (PCEH). During construction, PCEH will conduct air monitoring according to all state and federal environmental regulations.