

Slurry Injection BTEX and MTBE Remediation in California

Contaminants	Application Method	Soil Type	Groundwater Velocity
BTEX/MTBE	Slurry Injection	Sandy Silt	Undetermined

A service station in Oakland, California was contaminated with high levels of BTEX and MTBE due to leaking underground storage tanks. The aquifer material consists of sandy silt with intermittent clayey silt and silty sand. The depth to groundwater is approximately 7 feet below ground surface. Although aquifer conditions are poorly understood, plume dimension and extent indicate groundwater flow is to the north at an undetermined velocity.

A total of 2,550 pounds of ORC were injected as a slurry via Geoprobe along the northern and eastern sides of the existing underground storage tanks. Existing well MW-5 was used to monitor the reduction of BTEX and MTBE. A map of the site detailing the treatment area, groundwater flow direction, and monitoring well location is presented in Figure 1. The reduction of BTEX and MTBE is presented in Figures 2 and 3. Six months following the ORC application, BTEX was reduced 99% and MTBE was reduced 30%. Based on these results, this site has been submitted for closure.

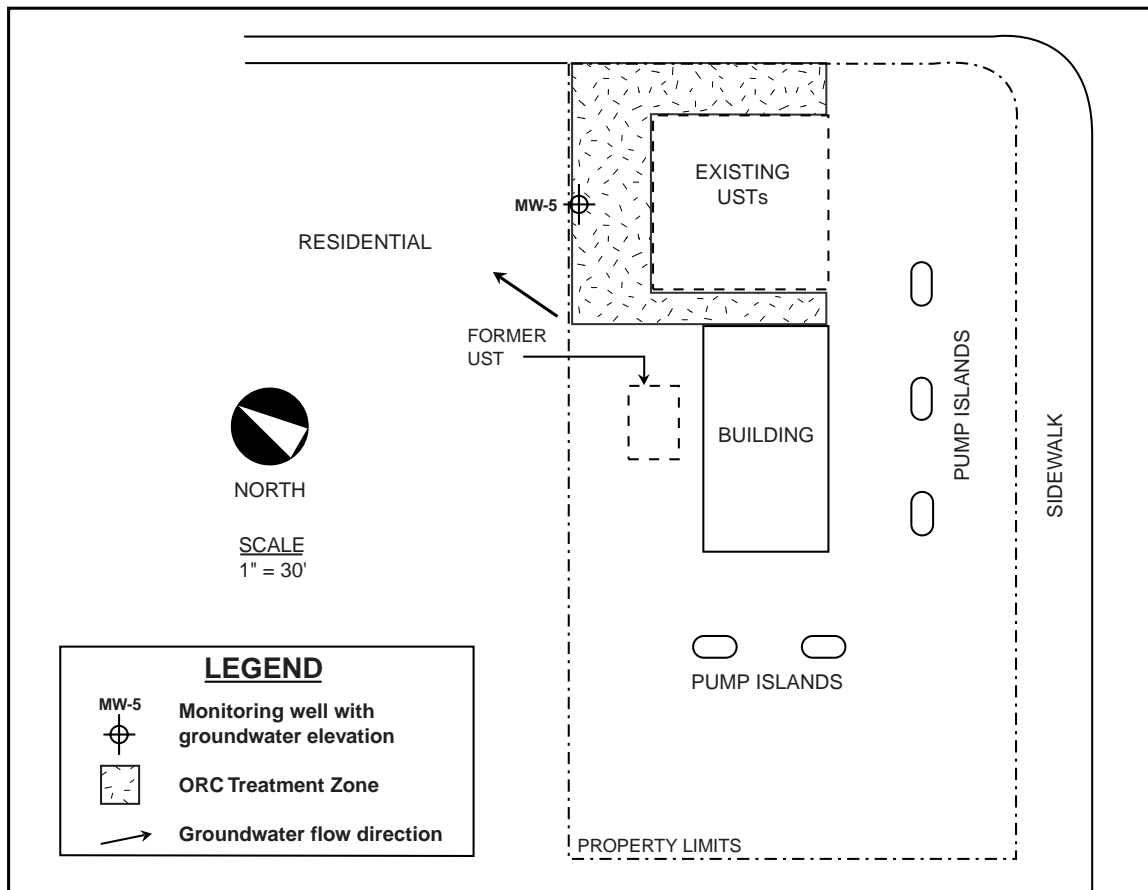


Figure 1

Figure 2

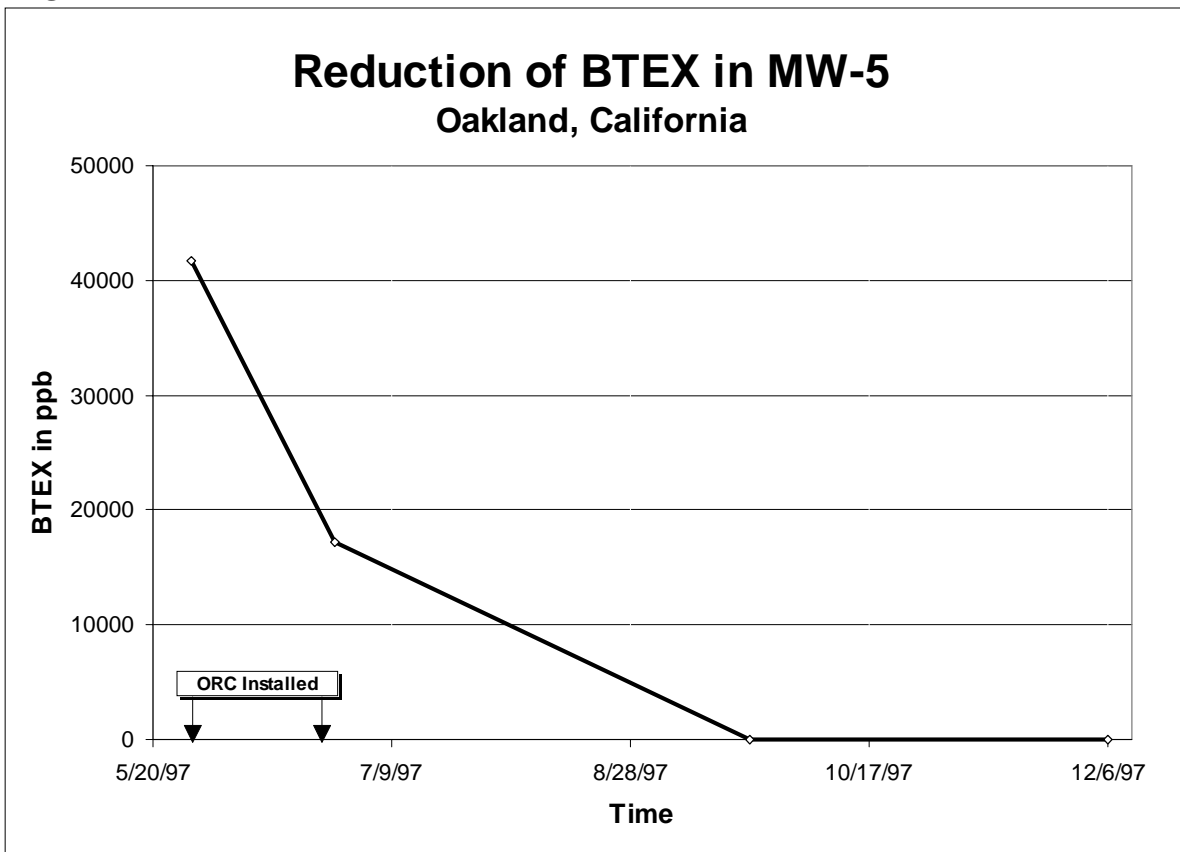


Figure 3

