

Slurry Injection MTBE Remediation in Wisconsin

Contaminants	Application Method	Soil Type	Groundwater Velocity
MTBE, BTEX	Slurry Injection	Sand	0.2 ft/day

High levels of MTBE and BTEX were detected in the groundwater at a service station in Wisconsin. The contamination was largely due to underground storage tank (UST) leakage at the site. The contaminant plume had MTBE concentrations ranging up to 800 ppb and BTEX concentrations ranging up to 14,000 ppb in a sandy aquifer. The groundwater flow direction is to the east northeast at a velocity of 0.2 foot per day.

Following UST removal and remedial excavation of contaminated soil, ORC slurry was applied into the backfill excavation via Geoprobe® injection. A total of 1,700 pounds of ORC powder were injected in the form of a slurry at the site. Monitoring wells MW-2 and MW-3 were used to monitor the reduction of BTEX and MTBE levels over time. A map of the site detailing the treatment area and monitoring well locations is presented in Figure 1. Following approximately nine months of treatment with ORC, both MTBE and BTEX levels decreased dramatically at MW-2 and MW-3. The decrease in contaminant levels is graphically represented in Figures 2 and 3.

Figure 1

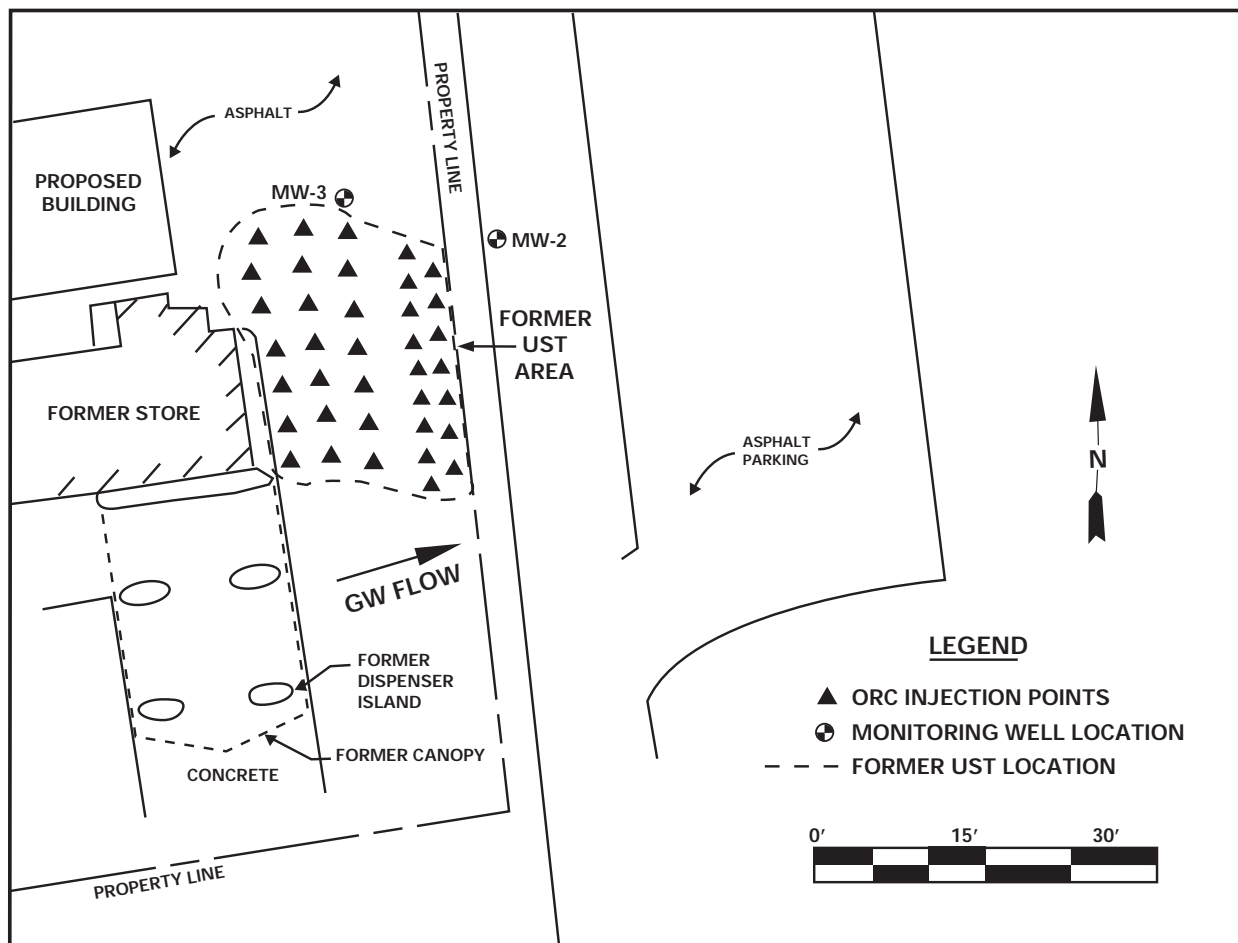


Figure 2

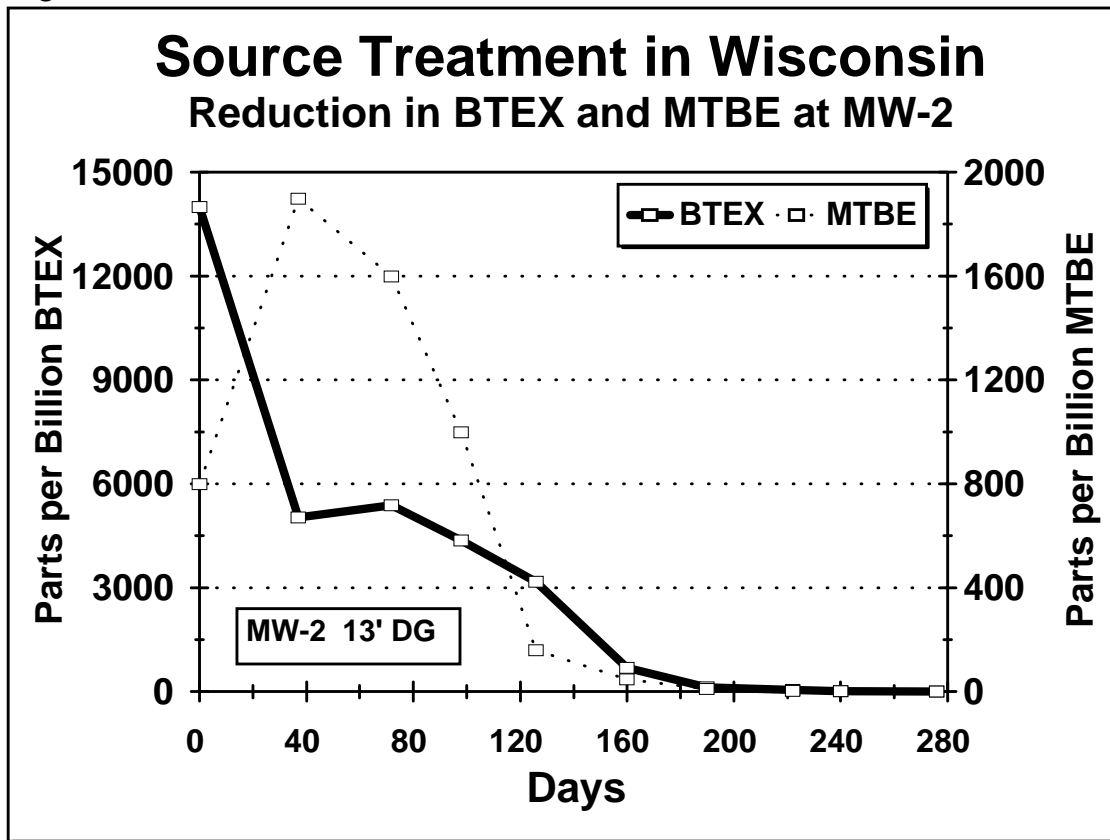


Figure 3

