

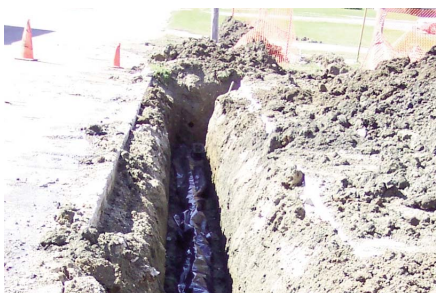
### SCOPE OF PROJECT

In July 2002, BARKER LEMAR completed a limited overexcavation and installation of a trench area for an air sparging and passive venting system. An on-site water well was plugged in April 2003 and a plastic water main and service line were replaced with ductile iron and copper in October 2003.



### IMPLEMENTATION

The site is an active retail fuel facility with one 12,000 gallon underground storage tank (UST) in use containing gasoline. In May of 1994, three USTs were removed from the site. The removed USTs included one 4,000-gallon gasoline, one 2,000-gallon gasoline and one 1,000-gallon diesel UST. A Tier 2 site cleanup report (SCR) was completed for the site, which classified it as high risk. The high risk receptors included drinking water wells (both on and off-site), a plastic water main and service line, and sanitary sewer receptors. The corrective actions were designed to reduce the source area concentrations in both the dissolved and absorbed phases and create a treatment wall along the south (down-gradient) side of the site to address potential further off-site migration. Due to site restrictions, only a limited area of the absorbed soil plume could be addressed by over-excavation. Sparging was proposed to supplement the over-excavation, to address inaccessible areas, and to provide treatment downgradient from the excavated area. Additional remedial activities included replacement of approximately 270 feet of four-inch plastic water main and approximately 55 feet of plastic water line and plugging the on-site drinking water well. Source well concentrations have declined by approximately 85 percent. The system currently continues to operate.



### SERVICES

Tier 2 assessment; preparation of a corrective action design report; limited overexcavation; air sparging/passive venting system; preparation of plans and specifications for water line replacement activities; IDNR (Iowa Department of Natural Resources) water supply permit application; plastic water line replacement and well plugging; monthly operations and maintenance of system; quarterly monitoring; bi-annual reporting.

### TIMELINE

Project Start Date: July 2002  
Project Completed: Ongoing

*CONTINUED-*

**CORRECTIVE ACTION ACTIVITIES -  
THOMPSON OIL, ORIENT, IOWA**