

# Kansas Department of Health and Environment

## Bureau of Environmental Remediation, Remedial Section

### State Water Plan Contamination Remediation Program



## *Interim Cleanup Activities at 501 North Santa Fe*

### **Background:**

In March 2001, the Kansas Department of Health and Environment (KDHE) completed an investigation utilizing federal funding at the Elm and Front Street Site to investigate ground water contamination. Carbon tetrachloride, chloroform, 1,2-dichloroethane (DCA), ethylene dibromide (EDB) and other chlorinated hydrocarbons and petroleum compounds were detected in ground water samples collected during the investigation. The distribution of the contaminants in ground water suggested that a former grain handling facility located at 501 N. Santa Fe Avenue was a source area for the chlorinated hydrocarbons. A reported release of grain fumigants from an above ground storage tank leak at the facility in 1969 or 1970 may have contributed to the ground water contamination. This release was later confirmed through interviews with a past employee.

### **Solution:**

The initial search for a potentially responsible party (PRP) had produced no active, viable responsible party



*Large Diameter Borehole Drilling*

for the grain fumigant release. The site was transferred to KDHE's State Water Plan Program on May 20, 2005. KDHE conducted additional investigations under the State Water Plan to further delineate and characterize contaminated soil and groundwater at the source area.

Since the ground water plume appeared to be threatening a City of Salina Public Water Supply well, it was determined that interim corrective action activities were needed to address source material still present at the site. These activities were initiated in October 2005 and included installation of five large-diameter boreholes and removal of approximately 220 tons of contaminated soil. Each borehole was then completed with an air sparge well, soil-vapor-extraction well, and product recovery well to address remaining soil and source area groundwater contamination at the source area. Completion and startup of the source area remediation system is expected in late 2005 or early 2006.

### **Benefits:**

- Approximately 220 tons of contaminated soil removed from source area at the site.
- Five large diameter boreholes installed and completed with air sparge and soil-vapor extraction wells to address remaining soil and source area ground water issues.



*Drilling of large diameter boreholes*