

# 200-ZP-1: Groundwater Performance



## Overview

Since 1994 DOE has operated a pump-and-treat system in the 200-ZP-1 Operable Unit (northern 200-West Area). The system removes carbon tetrachloride from the most concentrated portion of the contaminant plume.

The system was expanded in 2005 to capture a portion of the plume to the north.

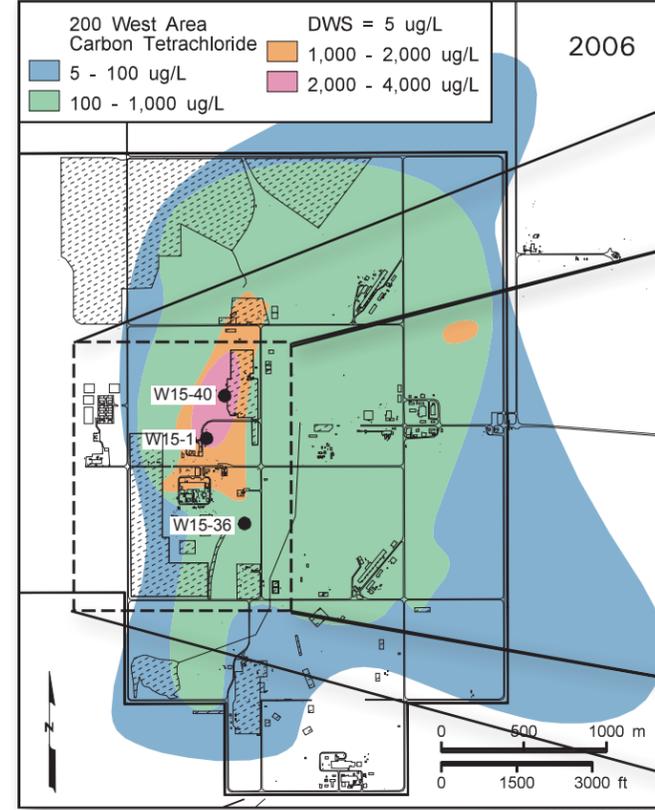
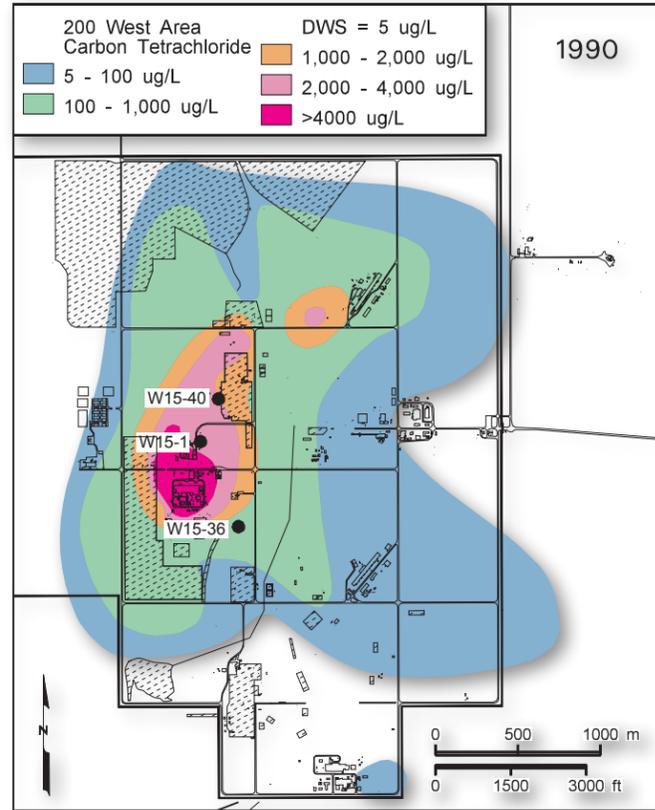
## Limitations

Carbon tetrachloride travels in three phases: dissolved in groundwater, as a non-aqueous fluid heavier than water, and as a gas. This causes it to move unpredictably to various depths in the unsaturated soil and groundwater.

## Conclusions

The pump-and-treat system removed 10,200 kilograms (11.2 tons) of carbon tetrachloride from groundwater from the upper portion of the unconfined aquifer.

The area of the plume with concentrations above the cleanup goal has shrunk 73% since the pump-and-treat started.



Carbon Tetrachloride Extraction and Injection Wells

