



Region 7

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Fact Sheet

March 2004

Third Five-Year Review To Begin Waverly Ground Water Contamination Superfund Site, Waverly, Nebraska

Introduction

The U.S. Environmental Protection Agency (EPA) reviews cleanup actions at certain Superfund sites at least every five years. These regular five-year reviews are required by the Superfund law [42 U.S.C. § 9621(c)] to make sure the site remains safe and the cleanup actions continue to protect public health and the environment.

EPA's first five-year review of the Waverly site was completed in September 1993. That review concluded the selected remedy was effective in controlling the migration of contaminated water from the site and was progressing toward cleanup and restoration of the aquifer. The EPA's second five-year review was completed in September 1999. That review concluded the remedy continues to perform as designed and is protective of human health and the environment. The EPA has started the process of gathering the information necessary for a third five-year review.

Site Background

The Commodity Credit Corporation (CCC), an agency within the U.S. Department of Agriculture (USDA); operated a federal grain storage facility at the site between 1952 and 1974. The facility consisted of grain storage structures (approximately 100 bins and 13 Quonset huts) on concrete foundations. A grain fumigant consisting of 80 percent carbon tetrachloride and 20 percent

carbon disulfide was used at the facility between 1955 and 1965.

Since 1975, the former federal facility property has been owned by Lancaster County, Nebraska, which operates a district office and maintenance facility on the premises. Some of the original grain storage foundations still exist at the site.

In 1982, as part of a nationwide survey, the EPA sampled the Waverly municipal water system. The results indicated carbon tetrachloride and chloroform contamination of Public Water Supply Well Numbers 1 and 3. Sampling conducted in 1983, 1984, 1985, and 1986 also showed high levels of carbon tetrachloride and chloroform. Between 1982 and 1987, four new Public Water Supply Wells were installed south of the site. All contaminated wells were taken out of service.

In May 1986, the EPA developed an Engineering Evaluation/Cost Analysis (EE/CA). It included a ground water pump-and-treat system that employed air stripping technology along with soil vapor extraction. In 1988 construction began on the system.

Site Remedy

The ground water extraction and air stripping systems were designed to remove the contaminants from the aquifer and help contain the spread of the contaminated ground water plume. The active soil vapor extraction system was

designed to remove the contaminants from soil above the water table.

The USDA continues to collect and analyze ground water data to ensure the system is operating as designed. The EPA continues to review all monitoring reports to ensure human health and the environment are protected.

The Five-Year Review

The five-year review process includes:

- the review and analysis of existing monitoring and operational data,
- the review of site information, and
- the inspection of the site to visually confirm and document the condition of the remedy.

EPA will conduct an inspection of the site. The current site information will be reviewed by EPA and the Nebraska Department of Environmental Quality to make sure the remedy continues to be protective. We encourage the community to tell us about site conditions or any concerns.

At the end of the review, a final report will be prepared and will be available in the site information repositories. The goal is to complete the review and report in September 2004.

Additional Information

Detailed site information, including the first five-year review report, is available at the following locations:

Waverly City Hall
14130 Lancashire Street
Waverly, Nebraska

EPA Records Center
901 N. 5th Street
Kansas City, Kansas

If you have questions or need additional information, please contact:

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