



Region 7

Iowa
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Fact Sheet

April 2003

Investigation Completed at Old City Dump Site (Operable Unit 3)

Riverfront Superfund Site, New Haven, Missouri

INTRODUCTION

The U.S. Environmental Protection Agency (EPA) Region 7 continues to investigate the Riverfront Superfund Site in New Haven, Missouri. EPA divided the Riverfront Site into six areas, known as Operable Units (OUs). We have completed the investigation of the Front Street Site (OU1) and the Old City Dump Site (OU3).

This fact sheet presents an overview of the Remedial Investigation/Feasibility Study (RI/FS) for the Old City Dump Site. The RI is a detailed study that identifies the cause and extent of the contamination and the possible threats to the environment and the people nearby. The FS details the options for cleaning up the site.

SITE BACKGROUND

Between the mid-1950s and 1974, household, industrial, and demolition waste were disposed of in the Old City Dump. The city of New Haven purchased the dump in 1972 from a private owner. According to local accounts, the dump contains hundreds of drums of industrial wastes such as unused dyes, flammable solvents, waterproofing compounds, and waste fabrics. The dump consists of a steep ravine where wastes were dumped until the entire upper end of the ravine was filled. The top of the dump is covered by concrete and asphalt rubble, dirt, and gravel.

REMEDIAL INVESTIGATION

The RI activities in and around the old dump included tree-core sampling, ground water and surface water sampling. Tree-core samples were collected from 22 trees along the flanks of the old dump. The overall results of the tree-core sampling indicated that tetrachloroethylene (PCE) is not a major contaminant at the dump.

The ground water was sampled in both the shallow and bedrock aquifers at the dump. PCE contamination was found at low levels. PCE and its breakdown products were not found in levels above the drinking water standard. However, antimony was found at levels above the drinking water standard. It is common to find antimony in dumps since it is commonly used in industrial processes.

Surface water samples were collected from streams in the vicinity of the dump. PCE and other volatile organic compounds were found at low levels. Based on these sample results, significant PCE contamination was not found in the surface water in the vicinity of the dump.

RISK ASSESSMENT

The Missouri Department of Health and Senior Services conducted a Human Health Risk Assessment at the Old City Dump Site. The risk assessment evaluated the amount and types of human health risks that are present at the site. The

risk assessment found that there are unacceptable levels of health risks to people if they use the ground water on the site for drinking, cooking or bathing. No other health risks were found at the site. An ecological risk assessment at the site found no increased risk to wildlife in the area of the site.

FEASIBILITY STUDY

The following cleanup options or remedial alternatives combine technologies to address ground water contamination at the Old City Dump Site. Many process options were eliminated because the risk levels are minimal at this Site.

Alternative 1-No Action. Alternative 1 would not involve any remedial actions, and the site would remain in its present condition. This alternative is a baseline alternative against which the effectiveness of the other alternatives can be compared and is required by federal regulation.

Alternative 2-Institutional Controls. Alternative 2 would use institutional controls to address potential health risks associated with contaminated ground water and surface water. Institutional controls would consist of deed and zoning restrictions, permits, and public education.

Alternative 3-Institutional Controls and Monitoring. Alternative 3 would use ground water monitoring and institutional controls to address the potential health risks associated with the contaminated ground water. Ground water and surface water would be periodically tested to monitor contaminant levels.

ADDITIONAL INFORMATION

EPA encourages community members to review the Remedial Investigation/Feasibility Study for the Front Street Site/OU 1 and the Old City Dump Site/OU3. This detailed information can be found in the Administrative Record File (a single file of all documents about the remedial action) for the Riverfront Superfund site. The Administrative Record

File is available for public review at the following information repositories, during normal business hours:

New Haven Scenic Regional Library
109 Maupin
New Haven, Missouri

EPA Region 7 Records Center
901 N. 5th Street
Kansas City, Kansas

Riverfront Superfund Site website:
<http://missouri.usgs.gov/epa/nh>

If you have questions about this fact sheet or need additional information, please contact:

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