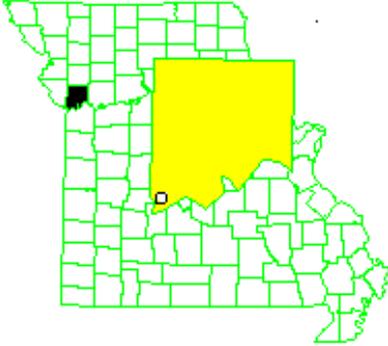


ARMOUR ROAD
MISSOURI
EPA ID# MOD046750253

EPA Region 7
City: North Kansas City
County: Clay County
Other Names:

02/19/2009



SITE DESCRIPTION

The Armour Road site is located in North Kansas City, Missouri, at 2251 Armour Road in Clay County. The site is a currently vacant piece of property on approximately 1.8 acres in a highly commercialized/industrialized area of the City. The site was formerly used for herbicide mixing and blending operations between 1948 and 1986. Herbicides were produced at the site for use by the railroad industry to eliminate or control vegetation along railroad tracks. Three companies blended or handled herbicides at this location: Reade Manufacturing Company, Inc. (Reade); U.S. Borax, Inc.; and Habco, Inc. During the Reade operation (1948-1963), raw materials were generally transported to the site in railroad cars where they were mixed in above and below ground tanks to produce various herbicide blends. U.S. Borax (1963-1968) leased the property from Reade and continued essentially the same operation. Raw materials used on site between 1948 and 1968 included powdered arsenic (95% pure), caustic soda, chlorates, sodium chlorate, borax, 2,4-D, pentachlorophenol, and fuel oil.

Site Responsibility:

The site is being addressed through the actions of potentially responsible parties, with oversight by EPA and the Missouri Department of Natural Resources.

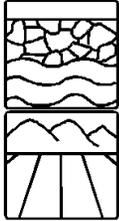
NPL LISTING HISTORY

Proposed Date: 01/19/99

Final Date: 05/10/99

Deleted Date:

THREATS AND CONTAMINANTS



Habco, Inc. purchased the property from Reade in 1968 and changed the operation from manufacturing herbicides to largely a repackaging operation whereby bulk containers of raw materials were repackaged into smaller 5, 10, and 30-gallon containers for blending in the field. Habco, Inc. reportedly used monosodium methyl arsenate (MSMA), sodium chlorate, sodium metaborate, Telvar, and Karmax DRUG FREE Herbicide. Water soluble materials such as 2,4-D and 2,4,5-T were blended on site. In 1986, the site became inactive when Habco, Inc. sold the site to the K.C. 1986 Limited Partnership.

CLEANUP APPROACH

Response Action Status

In 1996, EPA installed a fence around the site and laid fabric and crushed rock over exposed portions of the site in an effort to mitigate human health risks in the short term. In 1997, EPA entered into a Consent Decree with U.S. Borax to conduct an engineering evaluation/cost analysis, the purpose of which is to devise a longer term cleanup strategy for contaminated media at the site. In March 2002, the document entitled "Engineering Evaluation/Cost Analysis, 2251 Armour Road Site, North Kansas City, Missouri" was finalized. The removal response described in the Engineering Evaluation/Cost Analysis included demolition of the on-site building, and excavation, treatment and off-site disposal of contaminated soil.

Building demolition activities commenced in August 2004 and were largely completed in October 2004. Materials or wastes that were generated during this activity included approximately 1,350 tons of building concrete rubble; floor tiles, mastic and caulking containing asbestos; vat sediments; PCB wastes; scrap metal; and other miscellaneous materials. More information on this action can be obtained in the document titled "Building Demolition Report, 2251 Armour Road Site, North Kansas City, Missouri," dated November 16, 2004.

Excavation, treatment and offsite-disposal activities commenced in March 2005. Field activities were largely completed in spring 2006. More than 50,000 tons of contaminated soil was excavated and disposed of offsite. The majority of this soil required treatment to meet leachability standards. The soil was treated with ferric sulfate and lime, and was disposed of at the Courtney Ridge Landfill located in Sugar Creek, Missouri.

Groundwater monitoring activities commenced in 2007, and are expected to continue for at least several years. Objectives of the groundwater monitoring include evaluating the effectiveness of the soil removal action.



Site Studies: Engineering Evaluation/Cost Analysis for a Non-Time-Critical Removal Action

Site Facts:

ENVIRONMENTAL PROGRESS



The engineering evaluation/cost analysis was finalized in March 2002, with a 30-day public comment period occurring during March-April 2002. A Consent Decree involving multiple parties was finalized in 2004 that set forth requirements for implementing non-time-critical removal actions at the site. Response activities commenced in August 2004, and field activities were largely completed in spring 2006. Groundwater monitoring activities commenced in 2007, and are expected to continue for at least several years.

COMMUNITY INVOLVEMENT

March 2002

A fact sheet was mailed to the community, congressionals and media to announce the release of an Engineering Evaluation/Cost Analysis (EE/CA), a public comment period and an upcoming Availability Session for the Armour Road Superfund Site. The EE/CA described the proposed response actions to eliminate arsenic or greatly reduce arsenic-contaminated materials at the site.

On March 14, 2002, an Availability Session was held at the North Kansas City, Missouri City Hall (Council Chambers). Citizens had the opportunity to ask questions to help them better understand the proposed response actions in the EE/CA, and to provide comments on the EE/CA. An advertisement was published in the Kansas City Star to announce the 30-day public comment period for the EE/CA.

August - September 2004

On August 11, 2004, a fact sheet was mailed to the community, congressionals and media to announce the beginning of a cleanup action at the site. The goal of the action was to eliminate threats posed by contaminated soils, and to restore the property to a condition that will allow for redevelopment.

On September 1, 2004, a Media Advisory was disseminated announcing the cleanup and demolition of a \$7 million dollar Arsenic Project at the Armour Road site and announced an upcoming Press Event. The press Event was held on September 2, 2004, at the site. Representatives present were the North Kansas City Mayor, Economic Development and EPA. Local media present were Fox 4 News, Channel 41, Press Dispatch, Kansas City Star.

In March 2005, a flier was sent to the community announcing EPA's oversight of the excavation and removal of contaminated soil at the site. The flier also notified the community that a slight odor may be noticeable under certain conditions near the site during this phase of the cleanup.

In February 2006, a bus tour of the site was conducted by EPA Revitalization Team. The participants on the tour included EPA staff and staff from MDNR. Represented on the tour to speak about the site and the city's plans for the property was the Director for Economic Development in North Kansas City.

On February 19, 2009, reviewed and updated site mailing list.

SITE REPOSITORY



epaosc.org website
Armour Road Non-Time-Critical
Removal Action

Superfund Records Center
901 N. 5th St.
Kansas City, KS 66101
Mail Stop SUPR
(913)551-7166

REGIONAL CONTACTS

SITE MANAGER:	Dave Williams
E-MAIL ADDRESS:	Williams.Dave@epa.gov
PHONE NUMBER:	(913) 551-7625
COMMUNITY INVOLVEMENT COORDINATOR:	Belinda Young
PHONE NUMBER:	913-551-7463
E-MAIL ADDRESS:	young.belinda@epa.gov
STATE CONTACT:	Dana Deweese
PHONE NUMBER:	573-522-1795

MISCELLANEOUS INFORMATION

STATE:	MO 07WS
CONGRESSIONAL DISTRICT:	06
EPA ORGANIZATION:	SFD-

MODIFICATIONS

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