

SHENANDOAH STABLES

MISSOURI

EPA ID# MOD980685838

EPA Region 7

City: Moscow Mills

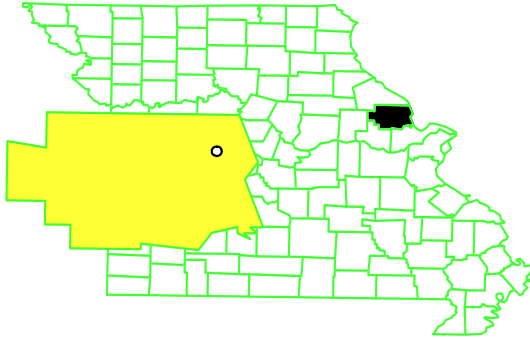
County: Lincoln County

Other Names: Arena 1 - Shenandoah
Stables

Highway 61 Fill

Slough Area

04/21/2006



SITE DESCRIPTION

The Shenandoah Stables site covers approximately 7 acres near Moscow Mills. In 1971, the horse arena became contaminated with dioxin when a St. Louis waste oil hauler sprayed it with approximately 2,000 gallons of contaminated oil for dust control. Afterward, numerous birds, rodents, and over 40 horses died. Several adults and children also became ill. In 1971, the top 6 to 8 inches of contaminated soil were excavated and used as fill material in a new highway. In 1972, more soil was removed from the arena and placed in a swampy area on site. The EPA sampling in 1982 indicated that the top 30 inches of soil in the arena and soil in the slough are contaminated with dioxin. Approximately nine houses are located in the rural area within a 1/4-mile radius of the Shenandoah Stables. The adjacent properties are mostly agricultural. The nearest residence is approximately 330 feet east of the site.

Site Responsibility:

This site has been addressed through Federal and potentially responsible parties' actions.

NPL LISTING HISTORY

Proposed Date:	12/30/82
Final Date:	09/08/83
Deleted Date:	09/25/2001

THREATS AND CONTAMINANTS



The soil in the arena and slough is contaminated with dioxin from the placement of contaminated oil on the site and from earlier cleanup attempts attempted by the site owner. Cleanup activities have eliminated the threat to public health and the environment.

CLEANUP APPROACH

Response Action Status

Immediate Actions: In 1982, and in subsequent years sampling was done to determine the extent of contamination at the site. **Soil and Solid Waste:** In 1988, the EPA selected a remedy for cleanup of the contaminated soil and solid waste which included: excavating the soil to health-based standards; placing the soil in bulk storage sacks, and storing the containerized soil on site in a newly constructed storage facility, decontaminating on-site structures; and fencing and posting the storage area. The EPA implemented the cleanup in 1990, which included the excavation and on-site interim storage of 6,542 tons of dioxin-contaminated soils above the 1 part per billion (ppb) action level. **Soil Disposal:** In the fall of 1990, the EPA selected a final cleanup remedy to dispose soil in conjunction with the cleanup of the Times Beach site. The selected action entailed transporting the containers of dioxin-contaminated soil to Times Beach for incineration. Contaminated materials were transported to Times Beach for treatment in October 1996. Storage structures were decontaminated following removal of site contaminants.

Site Facts: The site initially was identified due to citizen complaints concerning illnesses in children who had visited the site.

ENVIRONMENTAL PROGRESS



By excavating contaminated soils and transporting off-site for treatment, the EPA has eliminated threats to the community and the environment at the Shenandoah Stables site. Contaminated soils from the site were transported to the Times Beach facility for final destruction of dioxins by incineration, in October 1996.

COMMUNITY INVOLVEMENT

A Community Relations Plan was prepared for the site in April 1988 and is available in the site files. A Public Hearing to provide details of the feasibility study and preferred remedial alternatives for the site was convened on September 19, 1990, at Moscow Mills Community Center in Moscow Hills, Missouri. Fact Sheets were distributed to the site mailing list in March 1988, June 1988, September 1990, and August 2001.

SITE REPOSITORY



Superfund Records Center
901 N. 5th St.
Kansas City, KS 66101
Mail Stop SUPR
(913)551-4038

REGIONAL CONTACTS

SITE MANAGER:	Bob Feild
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STATE CONTACT:	
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MISCELLANEOUS INFORMATION

STATE:	MO 0740
CONGRESSIONAL DISTRICT:	09
EPA ORGANIZATION:	SFD-MOKS/SUPR

MODIFICATIONS

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