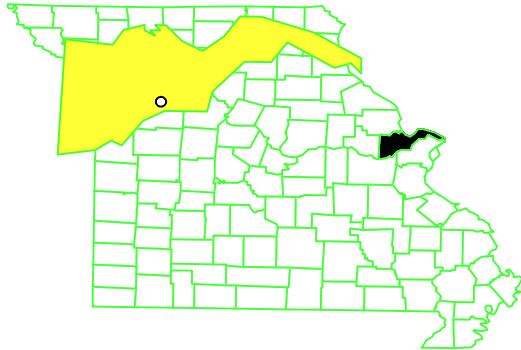


**WELDON SPRING
FORMER ARMY
ORDNANCE
WORKS
MISSOURI
EPA ID# MO5210021288**

**EPA Region 7
City: 35 miles west of St. Louis
County: St. Charles County
Other Names: Weldon Springs National
Guard Facility,
US Army Training Center, Weldon
Springs-Ex Army Ordnance Plant,
Ft. Leonard Wood**

10/13/2011



SITE DESCRIPTION

The Weldon Spring Former Army Ordnance Works site is located in St. Charles County, Missouri about 30 miles west of St. Louis and about 14 miles southwest of the City of St. Charles. It is bisected by State Highway 94, bounded on much of the north by U.S. Highway 40-61, and bounded on much of the south by the Missouri River. The area of the Ordnance Works site during production was 17,232 acres.

During its operation, the site produced explosives including trinitrotoluene (TNT) and dinitrotoluene (DNT) for the U.S. Armed Services. A series of land transfers left the Army with 1,655 acres, which it has operated since 1959 for the Army Reserve as the Weldon Spring Training Area. Contaminated areas are spread throughout the 17,000 acres of the site, with the greatest concentration in the Training Area. Some of the transferred land that covered two small areas of the original Ordnance Works area now are owned by the U.S. Department of Energy (DOE) and listed on the National Priorities List as Weldon Spring Quarry/Plant/Pits site. Investigations have identified a number of potentially contaminated areas, including seven unlined lagoons where TNT wastewater was stored, TNT production lines, two DNT production lines, drainage ditches below TNT production lines, and eight areas where explosive wastes were burned. Approximately 5,000 people live within 3 miles of the site, and approximately 70,000 people obtain drinking water from St. Charles County wells located within 3 miles of the hazardous substances at the site. Surface water in the area flows either to the Mississippi River watershed to the north or the Missouri River watershed to the south. Surface waters located within 3 miles are used for recreational activities.

Site Responsibility:

This site is being addressed through Federal actions.

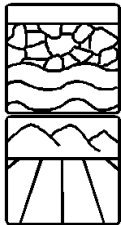
NPL LISTING HISTORY

Proposed Date: 07/14/89

Final Date: 02/21/90

Deleted Date:

THREATS AND CONTAMINANTS



In 1987, a Department of Defense (DoD) investigator found explosives such as TNT and DNT in monitoring wells near the lagoons. TNT, DNT, and lead have been identified in soil at several areas on the site, and TNT was detected in 1987 in surface water downstream of the lagoons. The Mississippi watershed, which supports wetlands, wildlife, and recreational activities, may be threatened by run-off from the site. The TNT and DNT contamination on the site represent a physical hazard with some potential for explosion. Ingestion of polluted surface water, ground water, or contaminated soil may pose a threat to human health. DNT is a probable human carcinogen and may be absorbed through direct contact.

CLEANUP APPROACH

Response Action Status

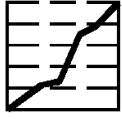
Initial Actions: In late 1992, the U.S. Army Corps of Engineers removed the interior wooden boards of a storage room used by the Francis Howell School District. This storage room was a box factory during the operation of the former Ordnance Works during World War II. Explosive contaminants were discovered within the interior wooden boards after wipe samples from the building were taken. The interior wooden boards were removed and replaced with sheetrock. As part of a removal action, Burning Ground #1 was fenced to eliminate any potential exposures while investigative actions are ongoing. Surface chunks of TNT have also been removed from the burning grounds to eliminate any direct contact threat.

Entire Site: In 1987, the DoD identified a number of contaminated areas on the site. Under EPA direction, DoD began a complete investigation into the nature and extent of contamination at the site in early 1990. The study, which led to the selection of a final cleanup remedy, was divided into two Operable Units (OUs). Operable Unit 1 (OU1) addressed surface soil, buried wooden pipeline, and various structures, and was completed in 1996, leading to a cleanup of the various source areas with a final report in September 2004. The primary remedy for OU1 was source

removal and destruction by incineration. Materials unsuitable for incineration were stabilized and landfilled, in two instances some TNT was removed to a permitted facility and detonated. Operable Unit 2 (OU2) of the study addressed ground water contamination and assessed the impact from the source removal remedy (OU1) on the ground water contamination. As a result of the ground water study, a monitored natural attenuation remedy with institutional controls to prevent future exposures was selected for the ground water contamination at the site in September 2004. The site was placed in a construction complete category in September 2005, indicating that all active construction to protect human health and the environment has been accomplished. Monitoring of site ground water and implementation of institutional controls will continue for the foreseeable future.

Site Facts: This site participated in the Installation Restoration Program (IRP), a specially-funded program established by the DoD in 1978, to identify, investigate, and control the migration of hazardous contaminants at military and other DoD facilities. The site was funded by IRP in FY05

ENVIRONMENTAL PROGRESS



The Record of Decision (ROD) for OU1 (Source Areas) was signed September 26, 1996. Incineration of TNT-contaminated soils and wooden pipeline as the remedy was selected and was completed in June 2004, with a final report in September 2004. Contaminated materials unsuitable for incineration were decontaminated, stabilized, and disposed of in a containment cell on-site or transported to a suitable RCRA-permitted facility.

The ROD for Operable Unit 2 (Ground water) was signed on September 30, 2004. Monitored natural attenuation (MNA) of contaminated ground water with institutional controls to prevent future exposures was the selected remedy. The ground water monitoring efforts will be ongoing for the foreseeable future.

The contaminated ground water plumes have not migrated past the site boundaries. The ground water is monitored annually and the remedy continues to be protective of human health and the environment.

The site was considered "Construction Complete" as of September 30, 2005.

In September of 2010, the Army completed the second five-year review for this site. The five-year review found the remedy at OU1 to be protective of human health and environment and the remedy at OU2 to be protective of human health and environment upon attainment of remediation goals through MNA.

COMMUNITY INVOLVEMENT

Review and evaluate community involvement documents, as needed.
Fact sheets and other documents can be accessed at the following link -
<http://www.nwk.usace.army.mil/projects/weldon/newsletters.htm>

Congressional Districts:

Senator Claire McCaskill, Senator Roy Blunt, Representatives Blaine Luetkemeyer

Senator Scott Rupp District 2, Senator Tom Dempsey District 23,

Representatives Doug Funderbunk District 12, Chuck Gatschenberger District 13, Kathie Conway District 14, Sallie Faith District 15, Mark Parkinson District 16, Anne Zerr District 18, Vicki Schneider District 17

SITE REPOSITORY



St. Charles City/County Library
District
Middendorf-Kredell Branch
2750 Hwy K
O'Fallon, MO 63366

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

REGIONAL CONTACTS

SITE MANAGER:

E-MAIL ADDRESS:

PHONE NUMBER:

Hoai Tran/R7/USEPA/US

tran.hoai@epa.gov

(913) 551-7330

COMMUNITY INVOLVEMENT

COORDINATOR:

PHONE NUMBER:

E-MAIL ADDRESS:

Ben Washburn

(913) 551-7364

washburn.ben@epa.gov

STATE CONTACT:

PHONE NUMBER:

Brandon Doster

(573)-526-2739

MISCELLANEOUS INFORMATION

STATE:

MO

07BC

CONGRESSIONAL DISTRICT:

09

EPA ORGANIZATION:

SFD-SUPR/IANE

MODIFICATIONS

Created by:

Karla
Asberry/SUPRFUND/R7/US
EPA/US

Created Date:

10/17/97 02:29 PM

Last Modified by:

Ben
Washburn/R7/USEPA/US

Last Modified Date:

10/13/2011 11:52 AM