

OUACHITA-NEVADA WOOD TREATERS (OUACHITA COUNTY) ARKANSAS



EPA REGION 6 CONGRESSIONAL DISTRICT 4

Contact:
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EPA ID# ARD042755231
Site ID: 0604486

Updated: April 2009

Current Status

EPA's remedial action contractor completed construction of the remedial action in September 2006. During construction, a slurry wall was installed to prevent ground water contamination from moving to off-site areas west of the site. Also, a system was installed to recover light non-aqueous phase liquid (LNAPL) that is present in the ground water. Operation and maintenance of the LNAPL recovery system is performed by EPA's remedial action contractor. Ground water samples are collected quarterly to monitor the levels of contaminants in the shallow water bearing zone.

Benefits

Removal of contaminated on-site soils, abandoned drums, and surface impoundments has significantly reduced the potential for contamination to migrate from the site into the intermittent stream and off-site wetlands. Once the remedial action goals are achieved, the ground water will be suitable for use by a future resident.

National Priorities Listing (NPL) History

NPL Proposal Date: February 4, 2000
NPL Final Date: May 11, 2000

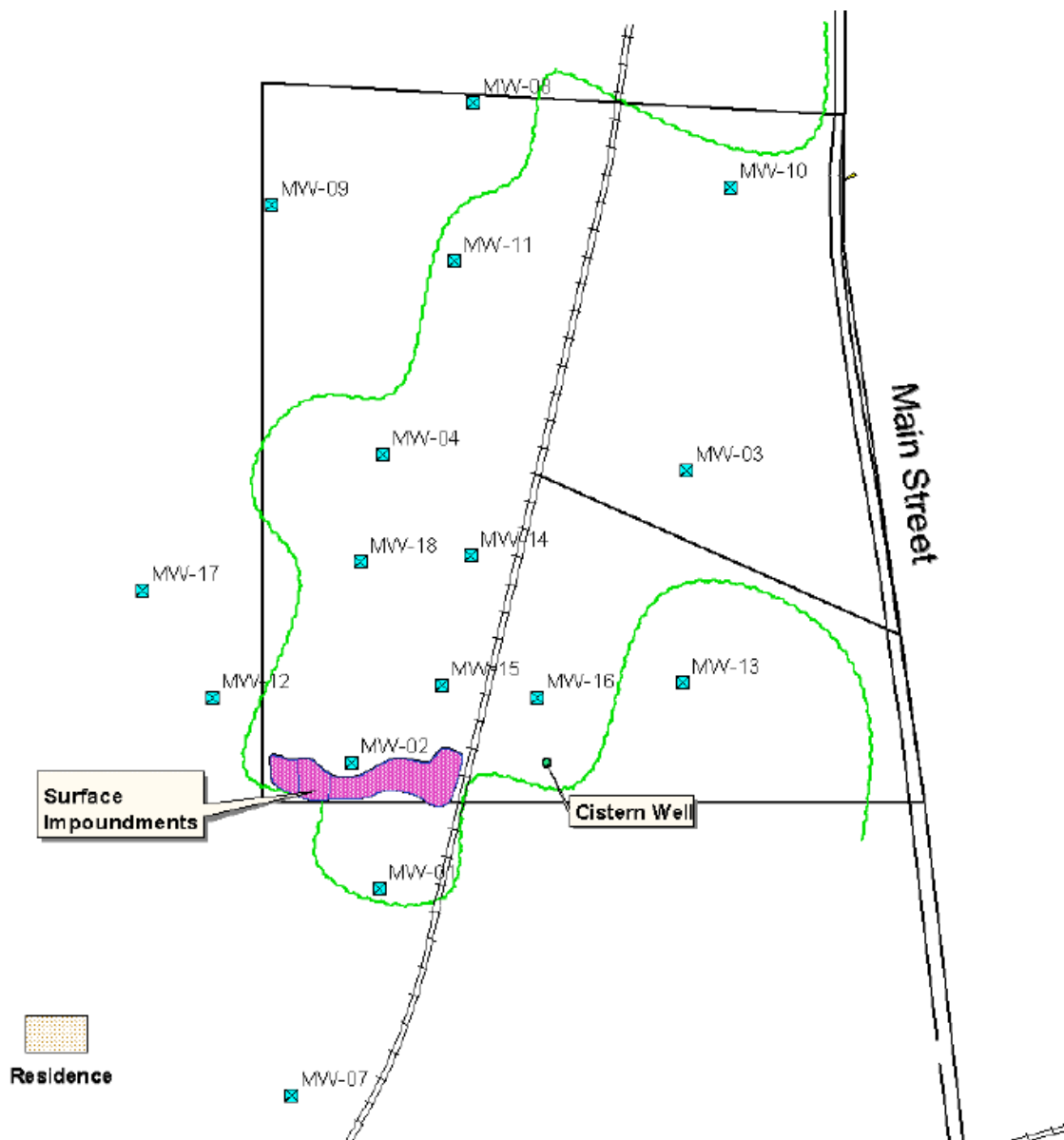
Site Description

Location: The Ouachita Nevada Wood Treaters site is located 1/4 mile north of Reader, Ouachita County, Arkansas.

Population: An estimated 6 people live within one half mile of the site. The population within a mile of the site is estimated at 33 people and an estimated 692 people live within 4 miles of the site.

Setting: The site consists of an inactive wood treating facility approximately 5 acres in size. Highway 368 and an active sawmill are located to the east. Rural woodlands, wetlands, and an intermittent stream are found to the west and north of the facility. Sparse residential areas are located north and south of the facility. The facility property is not fenced and is accessible to the public. Drainage from the site flows into an unnamed intermittent tributary located west of the site. The intermittent tributary drains into Caney Creek approximately 1 mile northwest of the site. Caney Creek merges with the Little Missouri River approximately 1/2 mile downstream. The Little Missouri River flows approximately 12 miles before joining the Ouachita River. The wetlands, the Little Missouri River, and the Ouachita River are all used for recreational fishing.

Site Map



Wastes And Volumes

The EPA began a removal action on April 3, 2000, to address releases from surface impoundments and soil contaminated with pentachlorophenol (PCP) and arsenic. EPA also took measures to pump and treat PCP-contaminated water from an on-site, and to remove debris and scrap metal from the site. Residual sludge and waste material was removed from the aboveground storage tanks and waste material was removed from the surface impoundments. Wastes from the storage tanks and surface impoundments were permanently removed during excavation activities. Approximately 4,067 tons of excavated contaminated soil was classified as hazardous solid waste and disposed of off site for incineration.

Approximately 18,000 gallons of water from the on-site well was pumped into a mobile storage unit and treated through a sand and carbon filtration unit. A steel cap was then placed on top of the on-site well; the cap was bolted to the well casing and locked to prevent entry. Wood debris from a wooden office building was removed and disposed of off site as non-hazardous material. Metal debris and scrap metal were removed from the site and recycled.

Health Considerations

The Remedial Investigation evaluated risks to human health and the environment. Results from the risk assessment identified a future risk to a resident at the site if they were exposed to ground water. There were no unacceptable risks to a trespasser or industrial worker. Also, there were no unacceptable ecological risks at the site.

Record of Decision (ROD)

EPA signed the Record of Decision on September 28, 2005

This ROD sets forth the selected remedy for the Site, which involves actions to address PCP contamination in ground water. The major components of the remedy are:

- **Recovery and Disposal of Light Non-Aqueous Phase Liquid (LNAPL)**
Wells will be installed within the source area for the recovery of LNAPL. The recovered LNAPL will require off-site disposal. Any contaminated ground water recovered during the LNAPL recovery process will require on-site treatment or off-site disposal.
- **In-Situ Enhanced Bioremediation**
Once LNAPL recovery operations stop, new or existing wells will be used for injection of bionutrients. Batch treatments of nutrient-containing amendment will be injected into the plume to enhance the naturally occurring biodegradation of pentachlorophenol.
- **Installation of a Slurry Wall**
A slurry wall will be installed along the western property boundary to prevent contaminant flow and dispersion to off-site areas to the west of the site. The wall would begin at the southwestern corner of the property and run northward along the property boundary. The exact length of the slurry wall will be determined in the remedial design.
- **Monitored Natural Attenuation (MNA)**
MNA will include sampling of monitoring wells and evaluation of the ground water plume to monitor migration of the plume and ensure natural biodegradation processes are occurring. Wells will be selected during the design phase for quarterly monitoring to evaluate decay rates and demonstrate plume stability.
- **Placement of an Institutional Control**
In order to further protect human health and prevent future ground water use from the shallow aquifer on site, EPA will implement institutional controls (ICs) at the site. EPA will negotiate a Consent Decree with the current landowner that would include a restriction on the installation of wells for the purposes of withdrawing water from the shallow aquifer. Under the Consent Decree, EPA would require the landowner to execute and record an easement running with the land that would grant right of access for activities related to implementing this ROD. Also, a deed notification will be filed with the appropriate land records office. During the performance of routine ground water monitoring activities at the Site, a Site evaluation will be conducted to ensure that there is no use of the contaminated ground water.

Site Contacts

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