

Arkansas Department of Energy & Environment
Division of Environmental Quality

Final Notice of Five Year Review
Mountain Pine Superfund Site

EPA ID Number: ARD049658628
Facility Location: State Highway 28, Plainview, Yell County, Arkansas
WEB Address: <https://www.epa.gov/superfund-redevelopment-initiative/superfund-sites-reuse-arkansas#mountain>

Regulatory Agencies & Location: The Arkansas Department of Energy & Environment: Division of Environmental Quality Office of Land Resources (DEQ) and the United States Environmental Protection Agency (USEPA) have conducted the Third Five Year Review for the Mountain Pine Superfund Site (MPPT). The site is located in Yell County, on the south side of State Highway 28, adjacent to the south-western edge of the City of Plainview, Arkansas.

Applicable Regulations: This review, conducted in accordance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Section 121 of CERCLA, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), requires that the remedial actions which result in any hazardous substances, pollutants, or contaminants remaining at the site be subject to a Five Year Review to ensure the selected remedial actions comply with applicable or relevant and appropriate environmental standards established under federal and state environmental laws. More specifically, the review was conducted in accordance with the current USEPA guidance document titled "Comprehensive Five-Year Review Guidance", dated June 2001 which may be found in the table at <https://www.epa.gov/superfund/superfund-five-year-reviews>. Final public notice for the completion of the Five-Year Review will follow the procedures outlined in the Arkansas Pollution Control and Ecology Commission (APC&EC) Regulation No. 8.

Reason for Review: The Five-Year Review was conducted to determine whether the remedy at the site remains protective of human health and the environment. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) further provides that remedial actions which result in any hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure be reviewed every five years to ensure protection of human health and the environment.

Site History & Contamination: The site includes the former inactive wood preserving facilities where structural timber was pressure-treated with solutions of pentachlorophenol (PCP) at the PCP plant operation, and copper chromated arsenic (CCA) at the CCA plant, and the redeveloped Plainview Lumber parcel. The PCP plant and the CCA plant operated from March 1962 until about February 1986. Plainview Lumber Co. is stated to have operated from 1965 to 1986. The facility re-opened briefly during the summer of 1989 but was closed again shortly thereafter.

During operation of the MPPT facility, generated wastes containing PCP and CCA were discharged to a recovery holding pond (RHP), where oil was collected for reuse by an oil-water separator. When the RHP reached maximum capacity, generated wastes were pumped into the Spray Evaporation Pond (SEP). The “new” CCATP was intended to be a self-contained process and did not use these surface impoundments for waste management. The former PLC portion of the site is periodically leased out by the City of Plainview for industrial purposes.

USEPA added the MPPT site to the National Priority List (NPL) in July 1999. A Record of Decision (ROD) was issued in September 2004 and specified treatment and discharge of contaminated surface water, excavation of contaminated soils and sediments and their treatment through a stabilization/solidification mixing process, return of treated material to excavated locations, and implementation of institutional controls, among other actions. Remedial actions were completed between March 2005 and September 2005. The intent of these actions was to prevent exposure to contaminated soils and sediments and to minimize future migration of contaminants to groundwater.

Since June 2008, DEQ has been responsible for conducting long-term O&M and groundwater monitoring at the site. DEQ periodically inspects the monitoring wells and waste cell caps, and the city of Plainview mows grass-covered areas of the site. Recently, the semi-annual monitoring frequency specified in the site O&M plan (EA 2008) was reduced to once every five years in accordance with recommendations contained in EPA’s Optimization Review (2018). Monitoring events are to be completed in the spring of the year prior to the next 5-Year Review date. In addition to sampling frequency reduction, laboratory analyses were reduced for groundwater monitoring events to include only PCP, TPH-DRO, arsenic, chromium, and copper in order to focus on constituents of the PCP (with TPH-DRO representing the treatment solution carrier compound) and CCA treatment processes.

Selected Remedy: The EPA conducted a Removal Action to alleviate liquid and sludge releases (from former timber treatment activities) from a recovery holding pond beginning December 11, 1987. The sludge Removal Action activities contained approximately 2,500 cubic yards of sludge by mixing the sludge with stabilization and solidification reagents, and the solidified mass was capped with 2 feet of clay. The Removal Action was performed in February 1988. During the Remedial Action activities conducted from March through September 2005, approximately 10,000 cubic yards of contaminated soil were stabilized with the addition of Portland cement, hydrated lime, ferrous sulfate, and granular activated carbon. The stabilization process chemically ‘immobilized’ the PCP and arsenic contaminants, thereby eliminating the threat to groundwater and surface water.

Summary of Results: Overall, Contaminants of Concern (COC) concentrations in groundwater sampling events within the reporting period indicate that there is no leakage from the remediated cells at the site. On that basis it is concluded that the selected remedy identified in the ROD is continuing to function as intended, to stabilize the contaminants to soil in-situ.

Applicable or relevant and appropriate requirements for the site have been determined and met, and there have been no known changes in the exposure routes, toxicity values, or

significant changes in cleanup levels that would affect the remedy. Monitoring of the groundwater biological/chemical degradation parameters onsite indicate that conditions (anaerobic) are favorable for PCP degradation and inhibitive for PAH degradation. However, under these conditions, PAH's are known for being highly stable and relatively immobile, so it is not anticipated that significant offsite transport will occur. Changes in the frequency of future groundwater sampling events to once every five years, and also a reduction in the number of contaminants analyzed to focus on the COCs identified at the site will require amendments to the O&M/Sampling/Monitoring Plans.

Protectiveness Statement: The remedy for the MPPT site is currently protective of human health and the environment because the waste has been removed or solidified/stabilized, capped, and is protected from erosion. Because of the completed remedial actions and monitoring program, the Site is considered protective in the short-term. However, in order for the remedy to be protective in the long-term the following actions need to be taken to ensure protectiveness:

- Implement institutional controls to restrict the use of the Site to industrial land use, and
- Implement institutional controls to restrict the use of contaminated groundwater to be protective in the long-term.

The results of the Five-Year Review at the MPPT site located in Plainview, Yell County, Arkansas indicate that the remedial actions selected are protective of human health and the environment. The implemented remedial actions of the soil covering capped with vegetation and the Monitored Natural Attenuation remedy for groundwater have functioned as designed and the site has been properly maintained.

The next Five-Year Review will be the fourth for this Site and should be completed in September 2025.

Report Repository: The results of the third Five Year Review are available to the public at the following information repositories:

Plainview City Hall
303 West Main
Plainview, Arkansas 72857

Arkansas Department of Energy & Environment
Division of Environmental Quality
Records Management Section
5301 Northshore Drive
North Little Rock, AR 72118
Web Site: <http://www.adeq.state.ar.us>

Dated this 26th Day of January 2022

Julie Linck, Chief Administrator of the Environment
Arkansas Department of Energy and Environment

