

Uranium One Moore Ranch Uranium Project

Site Location and Project Description

The Moore Ranch uranium recovery facility is located in Campbell County, Wyoming. The project is located in approximately 80.45 kilometers (50 miles) north-northeast of Casper, Wyoming. The proposed licensed area is along and south of Wyoming State Highway 387. Figure 1 shows the location of the Moore Ranch Uranium Project. The total area within the site boundary is approximately 2,873 hectares (7,100 acres). The uranium ore body at Moore Ranch occurs at depths of 61 to 76 meters (m) (200 to 250 feet [ft]) below ground surface (BGS). The average grade of uranium in the ore body is approximately 0.1-percent U_3O_8 . Operations are planned to occur in two well fields and a central processing plant. Uranium One plans to extract uranium using the in-situ recovery method, which consists of injecting a combination of native ground water, sodium bicarbonate or carbonate, and oxygen into the ore body.

Project Licensing and Operating History

By letter dated October 2, 2007 Uranium One Americas submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a new source material license for the Moore Ranch Uranium Project. The NRC staff issued Source Material License SUA-1596 to Uranium One Americas, Inc. on September 30, 2010 for the Moore Ranch Uranium Project. To date, the facility has no active operations.

Groundwater Protection and Airborne Effluent and Environmental Monitoring Program

Currently, there is no monitoring program because there are no active operations.

Additional Information

For more information about the proposed Moore Ranch Uranium Project, visit the NRC uranium recovery website at <http://www.nrc.gov/info-finder/materials/uranium/> or contact the NRC facility project manager, Douglas Mandeville, at (301) 415-0724 or douglas.mandeville@nrc.gov.

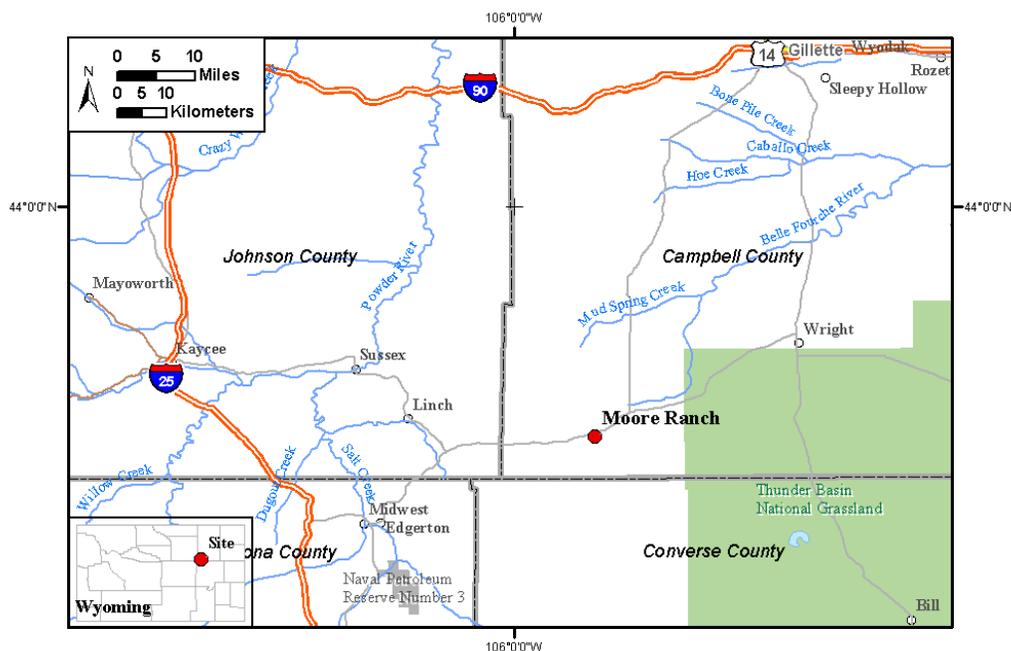


Figure 1. Location of the Moore Ranch Uranium Project.