

U.S. Department of the Interior
Bureau of Reclamation
Albuquerque Area Office
Albuquerque, New Mexico

FINDING OF NO SIGNIFICANT IMPACT

Town of Hagerman
Drought Emergency Water Well
Chaves County, New Mexico

Maestro Lamin

For Manager, Environment Division

7-8-08

Date

John R. Poland

Area Manager, Albuquerque, New Mexico

7/11/08

Date

FONSI Number: AAO-08-008

Summary of the Proposed Action

Reclamation will provide funding to drill an approximately 1050-foot deep water well into the San Andres limestone geologic formation to tap into the subsurface aquifer of the Roswell Artesian Basin. The well would be drilled on a site prepared by the Town of Hagerman, located approximately 2 miles southwest of the town. A supplemental water supply source would help the Town of Hagerman maintain a municipal water supply during drought. The town has obtained a permit for an exploratory well from the Office of New Mexico State Engineer.

Water produced by the well would be pumped into a new 10-inch water pipeline and transported to the existing water treatment facility. The distribution system is already established in the Town of Hagerman and would require an approximate 3-mile pipeline to connect it to the well.

Background

Record drought in the southwestern United States continues to threaten municipal water supplies with severe shortages. The Town of Hagerman, New Mexico, is dependent on groundwater wells for its municipal water. Nearly all of Hagerman's water is supplied by groundwater pumped from 2 existing municipal water wells. These wells range in depth from 900 to 1,000 feet and pull water from the San Andres formation of the Roswell Artesian Basin. One of the wells has poor water quality and is seldom used. Long, prolonged periods of drought such as the current event have a negative impact on groundwater levels, often requiring the need for deeper and more expensive wells. The drought is forecast to continue and may be very long, based on the historic record. Support for drought emergency well drilling was authorized by the U.S. Congress in Title 1 of the Reclamation States Emergency Drought Relief Act of 1991.

Environmental Impacts

The following resources and socioeconomic factors were evaluated in detail in the Environmental Assessment for anticipated impacts from implementation of the drought emergency water well and associated water pipeline: water resources, Federal and state-listed species, vegetation and wildlife, noxious weeds, soil erosion, air quality, cultural and archaeological resources, Indian trusts assets, socioeconomic, environmental justice, and visual resources. The following resources are discussed further in the Environmental Assessment document.

Water Resources

There is no information available that indicates the proposed well would impact any wells in the surrounding area. Information provided by the Town of Hagerman indicates the existing city wells (one of which has poor water quality) and the currently proposed well tap into the same water source. New impacts would be less likely since a new groundwater source would not be developed and because no additional water beyond Hagerman's existing water rights would be removed. No significant impacts to surface water, water quality, or ground water from this action are expected.

Federal and State Listed Species

No impact would occur to endangered, threatened, or sensitive plant or animal species on the well site.

Vegetation and Wildlife

Soils and vegetation disturbance would be kept to a minimum, vegetation cover would be left undisturbed whenever possible, and disturbed areas would be reseeded with native species. Temporary displacement of wildlife species due to increased human presence and noise from the construction activities would occur in the immediate area. Wildlife would temporarily leave the area but should return in a short period of time. No significant impact is expected.

Noxious Weeds

Implementation of the proposed action has the potential to result in the introduction and establishment of State-listed and other noxious weed species. However, an aggressive revegetation plan, combined with thorough cleaning of all equipment before arriving on site, would minimize that potential.

Soils Erosion

Soils and vegetation disturbance would be kept to a minimum, vegetation cover would be left undisturbed whenever possible, and disturbed areas would be reseeded with native species.

Air Quality

During construction, there would be temporary increases in suspended dust (sediment transfer), resulting from activities such as vehicle traffic. No equipment or facilities requiring permitting through the New Mexico Environment Department Air Quality Bureau (NMAQB) are proposed for the action.

Cultural and Archaeological Resources

There are no known structures or sites eligible for the National Register of Historic Places (NRHP) that would be affected by the Proposed Action. In addition, no sacred sites or traditional cultural properties are known to exist in the project area. If cultural or archaeological resources are encountered during site construction or drilling activities, work will stop and the Reclamation Area Archaeologist will be notified immediately. Should consultation with Tribes result in the identification of any such sites or properties, Reclamation would then consult with the Tribes concerned to ensure no adverse effects result from the Proposed Action Alternative.

Indian Trust Assets

No Indian Trust Assets have been documented in the project area. Therefore, Reclamation anticipates no impact to Indian Trust Assets resulting from the proposed action.

Socioeconomics

The proposed action would result in the creation of a small number of jobs for site preparation and drilling contractors during the construction and drilling phases of the project.

Environmental Justice

Implementation of the proposed action would not disproportionately (unequally) affect any low-income or minority communities within the project area.

Visual Resources

Visual quality impacts of the proposed action would result from temporary construction activities such as the generation of fugitive dust, increased traffic at the site, and the visual effects of the drill rig and construction equipment. None of these temporary visual quality impacts are significant on a local or regional scale.

Cumulative Impacts

Cumulative impacts as a result of the Proposed Action Alternative are expected to be minimal. This project, in combination with other planned projects in the area (e.g., 3 miles of 10-inch water pipeline construction), would not be expected to result in any long-term adverse cumulative effects to identified resources. The short-term cumulative effects of construction activities would be small in the overall regional context and would be temporary in nature.

Conclusion

Based on the analysis presented in the EA, Reclamation's assessment of Indian Trust Assets and Environmental Justice, and agency and public comment on the Draft EA, Reclamation finds that there would be no significant impacts associated with the proposed action. Reclamation makes this Finding of No Significant Impact (FONSI) pursuant to the National Environmental Policy Act (NEPA) of 1969 (42 U.S.C. 4321 et seq.) and the Council on Environmental Quality implementing regulations (40 CFR 1500). Reclamation has determined that the proposed action does not constitute a major Federal action that would significantly affect the human environment. Therefore, no environmental impact statement would be prepared for this proposal.