

Rancho de Bosque, Lamy, NM

aerial of development



irrigation of native landscapes



constructed wetland cell



Rancho de Bosque is a small, 23 lot subdivision SE of Santa Fe, NM. One of the goals for the developer was to ensure that the homeowner would have an attractive landscape in a area of NM that has a very limited supply of water.

In order to accomplish this goal, we designed an on-site waste-water treatment and reuse system that supplies treated effluent for use as irrigation water. Each home is connected to a small diameter collection system that delivers waste-water to the treatment system.

The treatment system consists of a three cell constructed wetlands, an intermittent sand filter, and covered storage pond. During the irrigation season, treated effluent is pumped back to each home in a distribution system that uses the same trench as the collection system.

Covenants require use of native plants, and prohibit hose bibs on the exterior of the house. Each home will be supplied with enough water to irrigate approximately 4000 square feet of native landscape. This was the first subdivision in New Mexico permitted for reuse of treated effluent.