



## LAPINE WASTEWATER SYSTEM IMPROVEMENTS

LaPine Special Sewer District, Deschutes County, Oregon

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**Cost:** \$4.5 million  
**Completion:** 2003  
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LaPine Special Sewer District provides wastewater collection and treatment for much of the surrounding area. The collection system is a hybrid design with elements of septic tank effluent pumping (STEP) and septic tank effluent gravity (STEG) systems. HGE was retained by Deschutes County to design a similar collection system to tie-in the nearby Wickiup Junction Rural Service District, and was retained by the sewer district to provide long-range planning, an SDC study, and construction plans for system expansion. HGE developed construction plans for expansion of the Wastewater Treatment Plant and reuse system in LaPine.

The expansion of an existing three-cell to a four-cell lagoon system, and conversion to aerated treatment increased the facility's total capacity to 250,000 gallons per day. The system was designed around Mark-V hybrid wind/electric powered aerators and includes a state of the art control system that can be remotely observed via internet connections. This was a \$1.4 million phase of a \$4.5 million wastewater collection and treatment master plan. Electrical design and construction administration services were provided through HGE, Inc.



We have developed water and wastewater facilities for the Newberry Neighborhood, a planned community adjacent to LaPine. HGE prepared the 1996 water system master plan for LaPine, a 2002 feasibility study for the Newberry Neighborhood, and pre-design report for the combined Newberry-LaPine Special Sewer/Wickiup Junction systems in 2003. This project was completed in 2005.

To make long-range plans for growth which is occurring, the LaPine Special Sewer District retained HGE to develop a new sewer system master plan through 2025.