

**WATER MANAGEMENT SYSTEM
FEASIBILITY REPORT**

for

GOSECROSS CELLARS

USE PERMIT

Yountville, Napa County, CA

Project No. 2002065

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DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT



Prepared by:

SUMMIT ENGINEERING, INC.
Consulting Civil Engineers
1400 North Dutton Avenue, Suite 24
Santa Rosa, CA 95401-7152

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Water Management System Feasibility Report

SYSTEM DESCRIPTION

Water for vineyard and landscape irrigation, fire protection, process applications and domestic use is currently supplied by two wells located on the property with a combined capacity of 6.5 gpm. The locations of the two wells, designated as Front Well and Back Well, are shown on the attached Drawing. However, the Front Well will be abandoned as a source of domestic and process water due to the lack of proper wellhead protection. The additional water required for the expanded winery process will be provided by the Back Well and a new well to be installed in the near future, in conjunction with an anticipated tank storage capacity of 15,000 gallons. Well logs will be available for both wells and the required well head protection (50-foot seal w/ 3-inch annular space) will be in place.

The current water treatment system consists of a water softener and automatic neutralizing filter w/polymer treatment. At the present time there are no changes planned for the water treatment system. Based on preliminary water analyses, the water quality meets or exceeds the requirements of the California Drinking Water Standards.

Water use is anticipated to peak in 2007 when the winery is projected to reach its ultimate capacity. Based on the Napa County Public Works criteria, the one year projected water demand for the winery is 0.86 ac-ft/year. A conservative estimate of peak daily water use for domestic and process water is 410 gpd and 1485 gpd, respectively; the winery can be adequately supplied by the planned water system.

all water will need to be treated to meet MCLs.

MANAGEMENT

An option for the consolidation of the winery water management system into an existing community-water system was determined to be unfeasible.

The water supply system is managed by the property owner/winemaker. The owner/winemaker has direct responsibility for operation and maintenance of the system. Major maintenance and emergency services are provided by a local drilling and pump company that was responsible for the initial installation of the treatment system.

FINANACIAL

The primary financial consideration involved in management of the winery's water system is the operation and maintenance of the treatment system, as opposed to any major capital improvements required or anticipated. The current operating and maintenance costs on an annual basis are estimated to be less than \$2000/year. If a catastrophic failure of the treatment system occurred, the total replacement cost, including installation, is estimated to be in the range of \$7000 - \$10,000.