

SYSTEM CASE STUDY: Ridge Vineyards – California



FAST FACTS

Project:

- ✓ bioPULSE™ MBR System for Water Reuse at Vineyard

Industry:

- ✓ Food & Beverage

Application:

- ✓ Biochemical Oxygen Demand (BOD) Removal
- ✓ Total Suspended Solids (TSS) Removal
- ✓ Water Reuse

bioPULSE™ MBR System Benefits/Highlights:

- ◆ Fully automated MBR process
- ◆ Low energy consumption
- ◆ Title 22 Certified
- ◆ High flux rates – small footprint
- ◆ Back-pulsed to enhance and sustain flux

Problem:

The vineyard needed to install a wastewater treatment system to reduce the BOD/TSS from the wine processing waste and use the system effluent for vine irrigation.

Solution:

bioprocessH2O supplied a bioPULSE™ Airlift Containerized Membrane Bioreactor (MBR) incorporating an energy efficient airlift external tubular and backwashable membrane that significantly reduces power consumption. The permeate from the membrane process is UV disinfected and being used to irrigate the vines.

Status/Results:

The bioPULSE™ MBR has proven effective at reducing the BOD, COD, and TSS from the vineyard's wastewater.

System Design Criteria:

Parameter	Influent	Effluent
Wastewater Flow	8,000 GPD	-
BOD	<8,000 mg/L	<5 mg/L
TSS	1,300 mg/L	<1 mg/L

Contact bioprocessH2O today!

