

## **Russian River Frost Protection Water Demand Management Plan**

**Submitted By:** Alfred White

**Date:** December 5, 2011

### **Inventory of frost diversion system(s)**

- (A) Name of the diverter Thornhill Vineyard Properties, LLC
- (B-1) Source of water used Russian River
- (B-2) Location of diversion Longitude 123.1786, Latitude 39.102717
- (C) Diversion system description capacity 40hp electric, 1500 gpm
- (D-1) Acres frost protected with irrigation 142
- (D-2) Acres frost protected by other means 0
- (E-1) Rate of diversion 3.3 cfs (recharge only)
- (E-2) Hours of operation (ea. frost event) 3-10
- (E-3) Volume diverted (ea. frost event) none during frost

### **Stream stage monitoring program**

- (A-1) Number of gages 2
- (A-2) Gage type USGS
- (A-3) Location of stream gages USGS 11462080 USGS 11462500
- (B) Stage that should be maintained at each gage to prevent stranding mortality  
The minimum flow required by D1610 at time of diversion
- (C) Provisions for gage installation, calibration and maintenance  
Gages already exist and are calibrated and maintained by USGS
- (D) Monitoring and recording intervals (not to exceed 15 min.) 15 min.