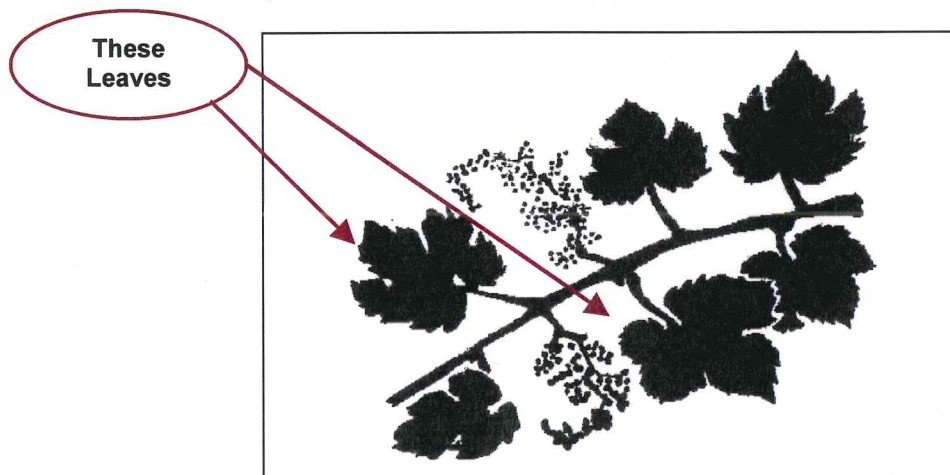


## Sunland Analytical

11419 Sunrise Gold Circle, #10  
Rancho Cordova, CA 95742  
(916) 852-8557

### Grape Petiole Sample Collection

Grape tissue analysis provides the best approach to determining current plant growth conditions and thus the response to the fertilization regime already chosen. This is in contrast to the soil analysis that provides the forecast for future conditions. There are changes in the amount of plant nutrients during the growing season and differences in nutrient amounts in different regions of the plant. An article by L.E. Williams (JAS, 1987) even demonstrated that Total N in Thompson Seedless leaves of the same plant varied depending on whether they were shaded by other leaves. Thus, if you want to make comparisons between the nutrient status of your plants from year to year it is important that you are consistent as to the time of year the sample is taken and consistent part of the plant analyzed (blade, petiole, etc). We suggest that you collect during full bloom and utilize the 20 to 50 petioles from the leaf opposite the basal clusters (as shown below).



Samples should be taken every 10 to 20 acres or where there appears to be different soil conditions and/or past observations suggest different growth patterns. Samples should be stored in a paper bag and allowed to begin drying. Though we suggest this sampling regime, it does not mean that Sunland does not analyze leaf blade or blade with petioles. In fact, we encourage you to continue consistent methods so that you can make comparisons between past and current analyses. We do make the above sampling suggestion because we feel that there is a greater body of information to allow immediate interpretation of the plant status from this petiole.

**REMEMBER THAT OUR THREE-DAY TURNAROUND ALLOWS YOU TO RESPOND MORE QUICKLY TO PLANT DEFICIENCIES.**