## **Tree Removal Worksheet**

## Note: if you are not using USLE or RUSLE2, or a Sediment Delivery Model please have your approach, pre-approved by the Sonoma County Agricultural Commissioner's Consulting Engineer\*. 1) Do you have a CEQA Document for your project? a. If YES, please include provide a copy for review with you completed application packet b. If NO, please continue to #2 2) Are you using a soil loss equation or model? a. - If No, you are using a sediment delivery model. Please contact the Sonoma County Agricultural Commissioner's Consulting Engineer\* b. If YES. i. If YES, please indicate the LS, C, and P values for your project in the blanks below (and on reverse) **USLE Calculations** Use values from BMP Appendix. Submit one set of calculations for each development block. Use BLOCK ID\_\_\_\_ reverse side for additional blocks **PRE-DEVELOPMENT POST-DEVELOPMENT** $A = R \times K \times \underline{\qquad} \times \underline{\qquad} \times \underline{\qquad} \times \underline{\qquad} P$ $A = R \times K \times \underline{\qquad} \times \underline{\qquad}$ Total Predicted Soil Loss (A) Total Predicted Soil Loss (A)

- ii. Do you plan to use the RUSLE2 (for projects with slopes 26 50%)?
  If YES, please include the details in your Erosion Control Plan
  If No, you are using an alternate Soil Loss Model. Please contact the Sonoma County Agricultural

## CUMULATIVE PREDICTED SOIL LOSS (for project)

Cumulative Pre-Development Predicted Soil Loss (A) - sum of "A values" for all development blocks \_\_\_\_\_\_

Cumulative Post-Development Predicted Soil Loss (A)-sum of "A values" for all development blocks \_\_\_\_

\*Note: To contact the Sonoma County Agricultural Commissioner's Consulting Engineer, please leave a message at (707) 565-2371 or send an email to <u>vesco@sonoma-county.org</u> Instructions: Use the form below to demonstrate that your pre-development predicted soil loss will equal your post-development predicted soil loss. Use values from BMP Appendix. Submit one set of calculations for each development block. Include these values in the Predicted Soil Loss Summary (on reverse).

	Pre-Development					Post-Development				
Block ID	Calculated A value	LS value	C value	P value		Calculated A value	LS value	C value	P value	

The USLE is composed of six factors to predict estimation of average annual soil loss (A)

## $\mathbf{A} = \mathbf{R} \times \mathbf{K} \times \mathbf{LS} \times \mathbf{C} \times \mathbf{P}$

The equation includes the following factors:

R is the rainfall erosivity factor.

K is the soil erodibility factor.

LS is the slope length and steepness factor.

C is the cover and management factor.

P is the support practice factor

Note: R and K values are consistent throughout development, and do not have to be included in these calculations