

MEMORANDUM

Date: April 9, 2020
To: Patrick Ryan, Napa County Planning, Building, and Environmental Services
From: James R. Bushey, P.E.



Cc: John McDowell, Napa County Planning, Building, and Environmental Services
Re: Hibbard Ranch Track I ECP #P19-00069-ECPA
APN 050-380-014
Supplemental Soil Loss and Hydrologic Analyses

This memo supplements the previously-submitted Hibbard Soil Loss and Hydrologic Analyses dated October 15, 2019. The project received technical adequacy by you during our meeting on January 27, 2020. As a result of Napa County Planning Department comments and discussions with the property owner's representatives, the proposed project area has been further reduced in Block 6C in order to avoid an existing landslide.

The acreage reduction within Block 6C will slightly decrease the total predicted soil loss for the block. Evaluating the soil loss modeling on a tons/acre basis, the block exhibits a decrease in sediment loss of approximately 0.9 tons per acre as a result of this project. The pre-project soil loss estimate for Block 6C is approximately 4.5 tons/acre while the post-project estimate is approximately 3.6 tons/acre (per revised analysis dated 10/15/2019). The loss in acreage did not have an effect on the transect or vegetative cover data associated with the soil loss calculations.

Similarly, reducing the acreage for Block 6C will not have a substantial affect on the Hydrologic Analysis because the reduction will return proposed vineyard area in the model back to pre-project land use. The runoff curve number associated with the land use in this area was lower post-project so there cannot be any increases in runoff as a result of the reduction in project area. Additionally, there was no change to the time of concentration as a result of the acreage loss.

The Hibbard Track I ECP has been redesigned to ensure compliance with Napa County policies requiring no-net-increases in soil loss or runoff for post-project conditions and no negative impacts are expected as a result of this project.