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To Whom It May Concern;

I reviewed section 4.3 of the Fairfax Conversion project comments entitled "The Cumulative Contribution to Global Climate Change".

The writer estimates that the project would generate emissions of 231 metric tonnes of carbon per year, while it would sequester approximately 355 tonnes per year. However, the analysis mostly ignores the fact that deforestation would substantially reduce the ongoing sequestration of carbon that has historically been, and continues to be, up to 2348 tonnes of carbon per year (according to the document under review). This is another loss of a California forest, and it further reduces California's statewide ability to meet its AB32 2020 mandate.

The author also does not include an estimate of carbon emissions associated with deforestation of 171 acres, nor the exhaust emissions associated with the logging and forest removal. Presumably these forests, as they presently exist, have a current sequestered inventory of tens of thousands of tons of carbon, which would be released to the atmosphere during the conversion process. The document does not discuss soil and duff and litter layer carbon pools. In creation of the vineyard I presume that the vineyard would not longer sequester these carbon pools, resulting in further carbon loss. These permanent losses are not discussed, and the numbers should appear in the environmental significance document.

Further the analyst does not include emissions from vineyard activities; instead it restricts the estimate to only the miles driven by workers commuting to and from the vineyard. The estimate does not include diesel from large trucks, farm equipment, tractor emissions, and other emissions associated with vineyard maintenance and operations. The actual emissions associated with the vineyard operation would be much greater than the estimate provided. The vehicle emissions of 366 grams of CO₂ per mile seem to be on the low side. At 18 miles per gallon I roughly estimate emissions to be about 550g of CO₂ per vehicle mile.

The author at times seems confused between carbon and carbon dioxide. We are not sure which metric is being used and in at least one table carbon is equated to carbon dioxide. According to the California Climate Action Registry, a ton of carbon dioxide equates to 1 ton of carbon.

The writer assumes that vines in the vineyard would sequester a measurable amount of carbon that would partially offset the loss of the forest. I suggest that the vines sequester a miniscule amount of carbon when compared to native redwood forests and oak woodlands.

Therefore, the numbers provided seem to indicate to me that the conversion of 171 acres would result in a significant local climate impact.

Sincerely

Tom Gaman