MEMORANDUM

Ella's Vineyard Winery and Tasting Room Water Management – 1598-01

Date: September 1, 2020

To: Holly Phipps

County of San Luis Obispo

Department of Planning and Building

From: Shannon Jessica, P.E.

Subject: Ella's Vineyard Winery and Tasting Room Water Use and Offset Analysis

Wallace Group has been retained to assist with the water management strategies for the proposed Ella's Vineyard Winery and Tasting Room improvements project. The project includes a new tasting room and new winery production facility. Wine production capacity will largely remain the same as in the past, therefore it is not expected that water use will increase as a result of wine making. The new tasting room is anticipated to bring an average of 15 visitors per day over the course of the year, and the winery will have approximately 2 full-time employees.

Because the winery is located within the Paso Robles Groundwater Basin, new water demands must be offset by removal of existing water demands from within the Basin. New water demands associated with visitor counts must offset at a 2:1 ratio, whereas new agricultural demands must be offset at 1:1.

The following is a breakdown of the proposed increase in water demand:

15 visitors x 5 gallons/person/day x 360 days/year 0.082 AFY

2 employees x 8 gallons/person/day x 360 days/year 0.018 AFY

Total New Water Demand 0.10 AFY

New Water Demand Offset Requirement at 2:1 0.20 AFY

The winery anticipates removing 900 square feet of existing irrigated turf grass near the existing residence (see Attachment A) at a rate of 4.8 acre-feet per acre per year (SLO County allowable Ag Offset for turf grass). The winery will also be utilizing leachfield disposal of domestic wastewater, which will be recharging the groundwater basin, and will be land applying process wastewater from the wine production facility.

The following is a summary of the proposed offset measures to meet the 0.20 AFY offset requirement:

900 sf existing irrigated turf x 4.8 af/acre/year 0.10 AFY

80% Domestic Water Demand Re-Charge via

Leachfield (0.8 x 0.10 AFY) 0.08 AFY

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80% Process Wastewater Recharge via Land Application/Reuse (1,000 cases wine/year) 80% of 10,000 gallons (0.03 AFY) process wastewater

0.02 AFY

Total Offset Available 0.20 AFY

