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Trip Generation Analysis



Date: October 18, 2017 (**Revised**)

To: Mr. Stanley Boyd
Boyd Vineyard Winery
4042 Big Ranch Road
Napa, CA 94558

From: Omni Means/GHD

RE: Focused Trip Generation Analysis for the Proposed Boyd Winery Project

Dear Mr. Boyd:

This letter report provides a focused trip generation analysis for the re-application of a Use Permit for the proposed Boyd Winery project located off of Big Ranch Road in Napa County. This study reflects our discussions with your planning consultant Mr. George Monteverdi, combined with our review of the updated project description and historical documentation pertaining to the project. The following sections outline the previous and new project description, and calculate the new daily and peak hour trip generation associated with proposed winery uses.

Previous Approved Use Permit (2005)

The Napa County, Development and Planning Commission approved a Use Permit (04056-UP) for the proposed Boyd Winery on October 19, 2005. Pursuant to County Code, the Use Permit was not formally activated and automatically expired on October 19, 2007.

The current Boyd Winery application seeks to authorize a new Use Permit for the Boyd Winery based on the same project description that was approved in 2005, but with an additional 5,000 gallons of wine production, for a total of up to 30,000 annual gallons. There would also be a slight increase in part-time employment (1 employee) and marketing events with a 30-guest maximum attendance.

Proposed Project Characteristics

The Use Permit application for the proposed Boyd Winery project would consist of very slight adjustments to the proposed component levels for employment and marketing events as previously approved in the project's Use Permit.¹ Proposed winery production would increase from 25,000 gallons up to 30,000 gallons. Weekday employment would increase by one (1) part-time employee. Finally, marketing events with a 30-guest maximum would increase from three events per year to ten (10) events per year. The following production, employment, and visitation levels are proposed:

- **Production:** up to 30,000 gallons annual production winery (75 tons existing on-site grapes, plus 107 tons imported grapes);
- **Visitation:** 15 visitors per day maximum, with an average of 40 visitors per week (tours and tastings by appointment only);
- **Employment:** maximum 6 Full-Time plus 4 Part-Time (crush & marketing events) typically 2 Full-Time and 1 Part-Time (normal operations);

- Marketing Events:
 - ten (10) annual winery events with 30 people maximum
 - 1 wine auction open house with 100 people maximum.

Project Trip Generation

Based on the proposed project description, the expected weekday and weekend daily and peak hour traffic volumes have been calculated and are shown in Table 1. The trips were calculated based on current Napa County Conservation, Development, and Planning Department trip generation rates.²

The proposed project is calculated to generate 14 weekday daily trips and 19 weekend Saturday daily trips during typical (non-crush) periods. The project would be expected to generate 5 weekday peak hour trips (1 in, 4 out) and 5 weekend peak hour trips (2 in, 3 out). During the crush season, the project is calculated to generate a maximum of 39 daily trips.

Based on standard automobile occupancy rates used by the County, the ten (10) annual winery events with up to 30 people would generate 44 trips (22 in, 22 out). The wine auction open house with an attendance of 100 persons would be expected to generate 96 trips (48 in, 48 out). These events are typically of sufficient duration in length that the inbound and outbound trips occur in separate hours, thus the number of trips on the street network at one time is half of the total volume. These events would be scheduled to minimize trips during typical peak traffic periods and cease by 10:00 pm.

Summary

Vehicle trip generation for the re-application of a Use Permit for the proposed Boyd Winery has been calculated based on current Napa County trip generation rates. Annual wine production would increase from 25,000 gallons up to 30,000 gallons. The Winery is calculated to generate 14-19 new daily trips and 5 new PM peak hour trips on typical weekdays and 5 mid-day peak hour trips on a Saturday or Sunday. During the crush season, the winery is calculated to generate a maximum of 39 new daily trips.

We trust this updated trip generation analysis for the proposed Boyd Winery project provides the necessary information related to the project's Use Permit Application with Napa County. Please contact us should you have any questions or comments.

Sincerely,



George W. Nickelson, P.E.

OMNI-MEANS, Ltd.

Engineers & Planners

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¹ Boyd Winery, Conditions of Approval for Use Permit 04056-UP, Napa County Conservation & Development Planning Commission, October 19, 2005.

² County of Napa, Conservation, Development, and Planning Department, "Use Permit Application Package", Napa County Winery Traffic Generation Characteristics, 2015.



**TABLE 1
PROPOSED BOYD WINERY PROJECT TRIP GENERATION**

<u>Typical Weekday Daily Trips:</u>		
6 visitors/2.6 persons per vehicle x 2 one-way trips	=	5 daily trips
2 full time employees x 3.05 one-way trips	=	6 daily trips
1 part-time employees x 1.90 one-way trips	=	2 daily trips
30,000 gallons/1,000 x .009 daily trucks x 2 o-w trips	=	<u>1 daily trip</u>
Total Weekday Daily Trips	=	14 daily trips
 <u>Typical Weekday PM Peak Hour Trips:</u>		
14 daily trips 0.38 peak	=	<u>5 peak hour trips</u>
Total Weekday PM Peak Hour Trips	=	5 trips (1 in, 4 out)
 <u>Typical Weekend (Saturday) Daily Trips:</u>		
15 visitors/2.8 persons per vehicle x 2 one-way trips	=	11 daily trips
2 full time employees x 3.05 one-way trips	=	6 daily trips
1 part-time employees x 1.90 one-way trips	=	<u>2 daily trips</u>
Total Weekend (Saturday) Daily Trips	=	19 daily trips
 <u>Typical Weekend (Saturday) Peak Hour Trips:</u>		
19 daily trips x 0.25 peak	=	<u>5 peak hour trips</u>
Total Weekend (Saturday) Peak Hour Trips	=	5 trips (2 in, 3 out)
 <u>Crush (Weekend Saturday) Daily Trips:</u>		
15 visitors/2.8 persons per vehicle x 2 one-way trips	=	11 daily trips
6 full time employees x 3.05 one-way trips	=	18 daily trips
4 part-time employees x 1.90 one-way trips	=	8 daily trips
30,000 gallons/1,000 x .009 daily trucks x 2 o-w trips	=	1 daily trip
107 average tons grape on-haul/144 trucks x 2 o-w trips	=	<u>1 daily trip</u>
Total Weekend (Saturday) Daily Trips	=	39 daily trips
 <u>Wine Auction (Largest Marketing Event) Trips:</u>		
100 visitors / 2.8 visitors per vehicle x 2 o-w trips	=	72 event trips
10 staff x 2 one-way trips per person	=	20 event trips
2 trucks x 2 one-way trips	=	<u>4 event trips</u>
Total Largest Marketing Event Trips:	=	96 event trips
 <u>Ten (10) Annual Marketing Events Trips:</u>		
30 visitors / 2.8 visitors per vehicle x 2 o-w trips	=	22 event trips
10 staff x 2 one-way trips per person	=	20 event trips
1 truck x 2 one-way trips	=	<u>2 event trips</u>
Total Marketing Event Trips:	=	44 event trips

Source: Production, employee, and visitor data provided by Mr. George Monteverdi (project representative). Daily and peak hour trip calculations based on County of Napa, Conservation, Development, and Planning Department, "Use Permit Application Package," Napa County Winery Traffic Generation Characteristics, 2015.

