

November 5, 2012

Ms. Amber Conboy  
**PLACER COUNTY PUBLIC WORKS**  
3091 County Center Drive  
Auburn, CA 95603

**RE: WISE VILLA WINERY USE PERMIT, PLACER COUNTY: RESPONSE TO COMMENTS.**

Dear Ms. Conboy:

As requested, I have considered one of the comments received on the **Wise Villa Winery Use Permit Project**. As we have discussed, you have asked for additional information regarding the project's impact to Fowler Road, including consideration of both project specific and cumulative impacts.

**Current / Future Traffic Volumes on Fowler Road.**

**Traffic Count Data.** Table 1 presents the traffic counts we made on Wise Road, along with the information you have available for Fowler Road. The daily volume on Fowler averaged 1,877 vehicles. These counts revealed that roughly 8.6% of the daily volume occurred in the highest volume hour.

TABLE 1 EXISTING TRAFFIC VOLUMES AND LEVELS OF SERVICE				
Location	Thursday 7/26/2012		Saturday 7/28/2012	
	Daily Volume/ Peak Hour Volume	Level of Service	Daily Volume/ Peak Hour Volume	Level of Service
Wise Road between Garden Bar Road and Wise Villa Winery	1,355 / 127	A	1,270 / 105	A
Fowler Road between Virginiatown Road and Fruitvale Road	1,877* 162	B	-	-

\*Source: Placer County counts, average of three days 6/02/2009-6/04/2009)

**Level of Service.** Level of Service (LOS) is a measure employed by traffic engineers to describe the quality of traffic flow on a roadway or at an intersection. Agencies adopt minimum standards for the operation of their facilities based on Level of Service grades (i.e., A thru F) which designate progressively worsening traffic operations. Placer County’s minimum Level of Service standard in rural area is LOS C.

The Placer County General Plan identifies Wise Road as a *rural arterial*, while other connecting roads like Garden Bar Road, Fruitvale Road and Fowler Road are *rural collectors*. It is important to note that physical characteristics of a road (i.e., pavement width, terrain, etc) in addition to its functional classification govern the capacity of the road.

Table 2 identifies daily traffic volumes that are associated with Levels of Service for various roadway classifications and rural roadway configurations. In this case, Fowler Road is a 2 lane rural highway in rolling terrain and could carry up to 3,800 vehicles per day per lane at LOS C, or a total volume of 7,600 vehicles per day. The current volumes of 1,877 vehicles per day are indicative of LOS B conditions on this rural road.

<b>TABLE 2 EVALUATION CRITERIA FOR ROADWAY SEGMENT LEVEL OF SERVICE</b>					
<b>Roadway Capacity Class</b>	<b>Maximum Daily Traffic Volume Per Lane Level of Service</b>				
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
1. Freeway – Level Terrain	6,300	10,620	13,680	17,740	18,000
2. Freeway – Rolling Terrain	5,290	8,920	11,650	14,070	15,120
3. Freeway – Mountainous Terrain	3,400	5,740	7,490	9,040	9,720
4. Arterial – High Access Control	6,000	7,000	8,000	9,000	10,000
5. Arterial – Moderate Access Control	5,400	6,300	7,200	8,100	9,000
6. Arterial – Low Access Control	4,500	5,250	6,000	6,870	7,500
7. Rural 2-lane Highway - Level Terrain	1,500	2,950	4,800	7,750	12,500
<b>8. Rural 2-lane highway – Rolling terrain</b>	<b>800</b>	<b>2,100</b>	<b>3,800</b>	<b>5,700</b>	<b>10,500</b>
<i>Rural 2-lane - Rolling (≥18' of pavement)</i>	640	1,680	3,040	4,560	8,400
9. Rural 2-lane road – Mountainous Terrain	400	1,200	2,100	3,400	7,000
<i>Rural 2 lane road - Mountainous (≥18 feet of pavement)</i>	320	960	1,680	2,720	5,600
<i>Rural 2 lane road – Mountainous (&lt;18 feet of pavement)</i>	265	795	1,390	2,250	4,635
Source: <b>Traffic Impact Analysis For Hidden Falls Regional Park Addition, Placer County, KDA 4/23/08</b>					
Thresholds that are applicable to Fowler Road are <b>highlighted</b> .					

KDA 266

**Year 2025 Traffic Volumes.** As noted in our original report, the volume of future traffic on roads in this area has been determined based on the best data available from the Placer County regional travel demand forecasting model. The traffic model suggests that the combined traffic volumes on Fowler Road and Gold Hill Road north of SR 193 could roughly double by 2025 (i.e., growth factor of 2.10). Thus, the weekday volume on Fowler Road could increase from the 1,877 vehicles per day in 2012 to roughly 3,955 vehicles per day in 2025. That forecast would be indicative of LOS B conditions.

**Effects of Event Traffic.** As noted in the original traffic study, a 100 person event at Wise Villa could generate 125 daily trips. The share of this total that may use Fowler Road is dependent on the origin of individual trips, but assuming 100% of the total use is Fowler Road, the resulting daily volume of 2,002 ADT would result in LOS B on this road.

**Cumulative Traffic Volumes.** Adding the project's trips to the Year 2025 forecast for Fowler Road yields a total of 4,080 ADT. This volume is indicative of LOS B.

**Cumulative Plus Other Event Centers Traffic Volumes.** You have asked what the combined cumulative effect of Wise Villa Winery and other known event projects could be. Our Assessment for the Gold Hill Gardens indicated that an event for 200 persons could generate 150 to 190 daily trips. Again, the share of that project's trips that may be on Fowler Road or on other routes to that site would depend on the choices made by individual drivers. If 100% of the higher forecast used Fowler Road, the total cumulative Year 2025 traffic volume with both centers operating simultaneously would be 4,270 ADT. This volume is indicative of LOS C as it exceeds the 4,200 ADT LOS B threshold for rolling terrain.

Please feel free to call me if you have any questions or need additional information.

Sincerely,

**KD Anderson & Associates, Inc.**



Kenneth D. Anderson, P.E.  
President

Encl: Traffic Counts for Fowler Road

cc: Dr. Grover Lee

KDA 267

# Average Daily Traffic Volumes

Quality Traffic Data, LLC

DATE: 11/11/11  
 TIME: 12:00  
 YEAR: 2011

	PM COUNTS			
	NB	SB	EB	WB
12:00				
12:15				
12:30				
12:45				99
13:00				
13:15				
13:30				
13:45				125
14:00				
14:15				
14:30				99
14:45				
15:00				
15:15				129
15:30				
15:45				
16:00				139
16:15				
16:30				
16:45				169
17:00				
17:15				
17:30				105
17:45				
18:00				91
18:15				
18:30				76
18:45				
19:00				57
19:15				
19:30				37
19:45				
20:00				27
20:15				
20:30				13
20:45				
21:00	1	1		
21:15	1	1		
21:30	1	1		
21:45				13
TOTALS	659	148		1114

	59.6%	10.7%	62.7%
PEAK HOUR	0:00	1:10	17.00
PHYS TIME	11	17	16.9
PHF	0.23	0.20	0.91

**DAY'S TOTAL**

 **QUALITY TRAFFIC DATA.**  
 9701 W Pico Blvd, Suite 205, Los Angeles, CA, 90035  
 Phone: 310-341-0019 Fax: 310-807-9247 Info@QualityTrafficData.com

*AVE (2) 1778, 1888, 1946*  
 $\frac{1}{3}$   
 $= 1877$   
*PK (2) = 168, 148, 154, 163*  
 $= 162$

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# Average Daily Traffic Volumes

Quality Traffic Data, LLC

DATE: 01/11/11  
 TIME: 11:00 AM  
 LOCATION: 10101  
 COUNTY: LOS ANGELES

	PM COUNTS				
	NB	SB	EB	WB	
12:00	1	1			
12:15	1	1			
12:30	1	1			
12:45	1	1			117
13:00	1	1			
13:15	1	1			
13:30	1	1			102
13:45	1	1			
14:00	1	1			
14:15	1	1			119
14:30	1	1			
14:45	1	1			
15:00	1	1			100
15:15	1	1			
15:30	1	1			
15:45	1	1			119
16:00	1	1			
16:15	1	1			
16:30	1	1			115
16:45	1	1			
17:00	1	1			
17:15	1	1			
17:30	1	1			117
17:45	1	1			
18:00	1	1			
18:15	1	1			
18:30	1	1			119
18:45	1	1			
19:00	1	1			
19:15	1	1			107
19:30	1	1			
19:45	1	1			
20:00	1	1			
20:15	1	1			
20:30	1	1			11
20:45	1	1			
21:00	1	1			
21:15	1	1			5
21:30	1	1			
21:45	1	1			
22:00	1	1			
22:15	1	1			
22:30	1	1			14
22:45	1	1			
23:00	1	1			
23:15	1	1			
23:30	1	1			
23:45	1	1			20
<b>TOTALS:</b>	<b>698</b>	<b>501</b>			<b>1199</b>

SPLIT	53.2%	11.9%	63.5%
PEAK HOUR	11:00	11:15	11:30
PIVOLUME	75	71	151
PIF	0.77	0.91	0.60

**DAY'S TOTAL**

 **QUALITY TRAFFIC DATA.**  
 9701 W Pico Blvd, Suite 205, Los Angeles, CA, 90035  
 Phone: 310-341-0019 Fax: 310-807-9247 Info@QualityTrafficData.com

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# Average Daily Traffic Volumes

Quality Traffic Data, LLC

DATE: 01/01/2011
PROJECT: 0401  
TIME: 07:00-19:00
MILE: 1.00

	PM COUNTS				
	NB	SB	EH	WB	
12:00	1	0	0	0	
12:15	1	0	0	0	
12:30	1	0	0	0	
12:45	1	0	0	0	
13:00	1	0	0	0	
13:15	1	0	0	0	
13:30	1	0	0	0	
13:45	1	0	0	0	
14:00	1	0	0	0	
14:15	1	0	0	0	
14:30	1	0	0	0	
14:45	1	0	0	0	
15:00	1	0	0	0	
15:15	1	0	0	0	
15:30	1	0	0	0	
15:45	1	0	0	0	
16:00	1	0	0	0	
16:15	1	0	0	0	
16:30	1	0	0	0	
16:45	1	0	0	0	
17:00	1	0	0	0	
17:15	1	0	0	0	
17:30	1	0	0	0	
17:45	1	0	0	0	
18:00	1	0	0	0	
18:15	1	0	0	0	
18:30	1	0	0	0	
18:45	1	0	0	0	
19:00	1	0	0	0	
19:15	1	0	0	0	
19:30	1	0	0	0	
19:45	1	0	0	0	
20:00	1	0	0	0	
20:15	1	0	0	0	
20:30	1	0	0	0	
20:45	1	0	0	0	
21:00	1	0	0	0	
21:15	1	0	0	0	
21:30	1	0	0	0	
21:45	1	0	0	0	
22:00	1	0	0	0	
22:15	1	0	0	0	
22:30	1	0	0	0	
22:45	1	0	0	0	
23:00	1	0	0	0	
23:15	1	0	0	0	
23:30	1	0	0	0	
23:45	1	0	0	0	
TOTAL	229	0	0	0	109

SPLIT	61.1%	0.0%	60.7%
PEAK HOUR	15:15	15:15	15:15
PH VOLUME	158	163	163
PHF	0.82	0.71	0.83

**DAY'S TOTAL**

270