



Appendix B – Detailed Floating Car Survey Worksheets

- "Before" and "After" Floating Car Travel Time Surveys for the weekday a.m. peak period

City of Lafayette

"Before" Travel Time Runs, Pleasant Hill Road between Rancho View Drive and Deer Hill Road, A.M. Peak Period

"Before" Floating Car Survey (Average of all Travel Time Runs)

Direction	Southbound	A.M. Peak Period				
		Segment Distance (feet)	Running Time (sec)	Delay (sec)	Total Segment Time (sec)	Cumulative Travel Time (sec)
To						
to Pleasant Hill Road/Greenvalley Drive (#2)	1165	23	86	109	109	15
to Pleasant Hill Road/ Reliez Valley Road (#3)	1332	32	102	134	243	8
to Pleasant Hill Road/ Spring Hill Road (#4)	708	20	49	68	312	10
to Pleasant Hill Road / Deer Hill Road (#5)	2326	66	60	126	438	17
Total	5,531	140	298	438	438	10
	1.05 miles	2:20 (min:sec)	4:58 (min:sec)	7:18 (min:sec)	7:18 (min:sec)	10 mph

Corridor Summary		
Average Travel Time (sec)	438	7:18 (min:sec)
Average Delay (sec)	298	4:58 (min:sec)
Average # of stops	6	
Average Speed (mph)	10	

"Before" Floating Car Survey (Worst Travel Time Run)

Direction	Southbound	A.M. Peak Period				
		Segment Distance (feet)	Running Time (sec)	Delay (sec)	Total Segment Time (sec)	Cumulative Travel Time (sec)
To						
to Pleasant Hill Road/Greenvalley Drive (#2)	1165	1	311	312	312	3
to Pleasant Hill Road/ Reliez Valley Road (#3)	1332	6	271	277	589	3
to Pleasant Hill Road/ Spring Hill Road (#4)	708	15	82	97	686	5
to Pleasant Hill Road / Deer Hill Road (#5)	2326	57	142	199	885	8
Total	5,531	79	806	885	885	4
	1.05 miles	1:19 (min:sec)	13:26 (min:sec)	14:45 (min:sec)	14:45 (min:sec)	4 mph

Corridor Summary		
Average Travel Time (sec)	885	14:45 (min:sec)
Average Delay (sec)	806	13:26 (min:sec)
Average # of stops	7	
Average Speed (mph)	4	

Notes:

Running Time = Total Segment Travel Time - Stop Delay. It is essentially time during which vehicles can drive at free-flow speed)

Stop Delay = Delay experienced with a full stop at the intersection as well as travel time when the vehicle speed is less than 10 mph.

City of Lafayette

"After" Travel Time Runs, Pleasant Hill Road between Rancho View Drive and Deer Hill Road, A.M. Peak Period

"After" Floating Car Survey (Average of all Travel Time Runs)

Direction	Southbound	A.M. Peak Period					Corridor Summary				
		To	Segment Distance (feet)	Running Time (sec)	Delay (sec)	Total Segment Time (sec)				Cumulative Travel Time (sec)	Segment Speed (mph)
		to Pleasant Hill Road/Greenvalley Drive (#2)	1165	24	46	69	69	23	Average Travel Time (sec)	332	5:32 (min:sec)
		to Pleasant Hill Road/ Reliez Valley Road (#3)	1332	33	71	104	173	11	Average Delay (sec)	192	3:12 (min:sec)
		to Pleasant Hill Road/ Spring Hill Road (#4)	708	21	26	47	219	19	Average # of stops	4	
		to Pleasant Hill Road / Deer Hill Road (#5)	2326	64	50	113	332	17	Average Speed (mph)	14	
		Total	5,531	141	192	332	332	14			
			1.05 miles	2:21 (min:sec)	3:12 (min:sec)	5:32 (min:sec)	5:32 (min:sec)	14 mph			

"After" Floating Car Survey (Worst Travel Time Run)

Direction	Southbound	A.M. Peak Period					Corridor Summary				
		To	Segment Distance (feet)	Running Time (sec)	Delay (sec)	Total Segment Time (sec)				Cumulative Travel Time (sec)	Segment Speed (mph)
		to Pleasant Hill Road/Greenvalley Drive (#2)	1165	33	80	113	113	7	Average Travel Time (sec)	543	9:03 (min:sec)
		to #3: Pleasant Hill Road/ Reliez Valley Road (#3)	1332	30	130	160	273	6	Average Delay (sec)	383	6:23 (min:sec)
		to #4: Pleasant Hill Road/ Spring Hill Road (#4)	708	21	91	112	385	4	Average # of stops	7	
		to #5: Pleasant Hill Road / Deer Hill Road (#5)	2326	76	82	158	543	10	Average Speed (mph)	7	
		Total	5,531	160	383	543	543	7			
			1.05 miles	2:40 (min:sec)	6:23 (min:sec)	9:03 (min:sec)	9:03 (min:sec)	7 mph			

Notes:

Running Time = Total Segment Travel Time - Stop Delay. It is essentially time during which vehicles can drive at free-flow speed)

Stop Delay = Delay experienced with a full stop at the intersection as well as travel time when the vehicle speed is less than 10 mph.