Darnell & ASSOCIATES, INC.
TRANSPORTATION PLANNING & TRAFFIC ENGINEERING

February 23, 2009

Mr. Mike Reynolds
Reynolds Communities
1908 Friendship Drive, Suite A
El Cajon, CA. 92020

D&A Ref. No: 030204

RE: Supplemental Traffic Report for Fuerte Ranch Estates (TM 5343, RPL 2, 6 PA 03-006, REZ 03-017).

Dear Mr. Reynolds,

In response to Public and County comments, Darnell & Associates, Inc. prepared this supplemental traffic information and analysis. This supplemental report provides the following:

- Update of selected 24 hour and AM/PM intersection counts and the analysis of existing and existing plus project traffic conditions.
- Year 2006-2008 Accident Data.

YEAR 2009 TRAFFIC VOLUMES AND ANALYSIS

Darnell & Associates, Inc. (D&A) collected updated traffic counts at the following locations on a Tuesday or Wednesday in January 2009 (A copy of the count sheets are attached at the end of this letter for the reader's reference):

- Fuerte Drive west of Avocado Boulevard,
- Fuerte Drive west of Damon Lane,
- Avocado Boulevard south of Fuerte Drive,
- Fuerte Drive/Avocado Boulevard; and
- Fuerte Drive/Chase Lane.

D&A reanalyzed the roadway segments and intersection listed above utilizing the updated (2009) traffic counts, the results of the analysis are summarized in Table 1 and 2 for the roadway segments and intersections, respectively. As shown in Tables 1 and 2, they key roadway segments and intersections continue to operate at acceptable levels of service under existing and existing plus project conditions. Thus it is concluded that the conclusions of the D&A November 2006 Traffic Study for Fuerte Ranch Estates would not change substantially with the utilization of updated traffic count data. (It should be noted that the traffic volume counted on Fuerte Drive west of Damon Lane remained almost exactly the same between the January 2006 count [3,182] and the January 2009 count [3,172].)

Table 1 - Existing Plus Project Roadway Segment Level of Service Summary

Roadway Segment	Class	Capacity [a]	Existing		Project Traffic	Existing + Project			
			ADT	LOS	ADT	ADT	LOS	Sign?	Impact
Avocado Boulevard									
South of Fuerte Drive	4M	33,400	23,072	B	115	23,187	B	N/A	None
Fuerte Drive									
West of Avocado Boulevard	LC	10,900	9,807	D	139	9,946	D	N/A	None
Fuerte Farms Rd to Damon Ln	LC	10,900	3,172	B	264	3,436	B	N/A	None

(a) Capacity is based on the upper limit of LOS D per the County of San Diego Level of Service Thresholds
Significance is based on the County of San Diego's *Guidelines for Determining Significance;*
N/A = Not Applicable because segment operates at LOS D or better;
ADT = Average Daily Traffic; LOS = Level of Service; 4M = 4-Lane Major Road; LC = Light Collector Road

Table 2 - Existing Plus Project Intersection Level of Service Summary

Intersection	Critical Move	Existing				Existing + Project											
		AM Peak		PM Peak		AM Peak						PM Peak					
		Delay	LOS	Delay	LOS	Delay	LOS	Δ Delay	Proj. Trips	Sig.	Impact	Delay	LOS	Δ Delay	Proj. Trips	Sig.	Impact
Fuerte Dr (E-W) @ Avocado (N-S) [Sig]	Int.	28.6	C	31.8	C	28.7	C	0.1	23	N/A	None	31.9	C	0.1	28	N/A	None
Fuerte Dr (E-W)@ Damon Ln (N-S) [TWSC]	EB	7.6	A	7.5	A	7.6	A	0.0	11	N/A	None	7.6	A	0.1	5	N/A	None
	WB	7.4	A	7.5	A	7.5	A	0.1	4			7.5	A	0.0	13		
	NB	10.3	B	10.5	B	10.4	B	0.1	0			10.7	B	0.2	0		
	SB	9.4	B	10.2	B	9.5	B	0.1	0			10.3	B	0.1	1		

Delay = seconds of delay per vehicle; LOS = Level of Service; Δ Delay = Increase (Decrease) in delay measured in seconds/vehicle;
Sig.? = County of San Diego's *Guidelines for Determining Significance*; N/A = Not Applicable because intersection operates at LOS D or better; TWSC = Two-Way Stop-Controlled;
E-W = East-West; EB = eastbound; WB = westbound; NB = northbound; SB = southbound; Proj. Trips = Project trips on Movement; Int = intersection;

ADDITIONAL ACCIDENT HISTORY ALONG FUERTE DRIVE

The County of San Diego Public Works Department provided a listing of accident history along Fuerte Drive for 2006, 2007 and 2008. The total number of accidents between Avocado Boulevard and Chase Avenue for the three years is as follows:

Year of Accident:	Number of Collisions
2008:	8
2007:	11
2006:	7
Total:	**26**

The majority of the accidents occurred at the Avocado Boulevard/Fuerte Drive and Fuerte Drive/Chase Avenue intersections with eight (8) and six (6) total accidents respectively. The breakdown of accidents is as follows:

Accident History 2006-2008						
	Hit Fixed Object	Broadsided	Rear End	Pedestrian	Sideswipe	Total
Avocado Boulevard/Fuerte Drive	**1**	**3**	**2**	**1**	**1**	**8**
Fuerte Drive/Chase Avenue	*3*	**2**	**0**	**0**	**1**	**6**

The remaining accidents were speeding along the route and consisted of vehicles hitting fixed objects or sideswipe accidents at the two highest accident locations. Review of the accident data for the three (3) years did not identify any significant accidents for the three (3) Years 2006-2008.

Please call if you have any questions or need additional information.

Sincerely,

DARNELL & ASSOCIATES, INC.

Bill E. Darnell

Bill E. Darnell, P.E.
RCE: 22338

BED/jam
030204-Responses to Public Comments Letter

Attachment A

- Intersection Capacity Worksheets
- Traffic Counts:

<u>24-Hour Segments-</u>

1. Fuerte Drive W/O Damon Lane
2. Fuerte Drive W/O Avocado Blvd.
3. Avocado Blvd S/O Fuerte Drive

<u>Intersection AM/PM Turn Counts-</u>

1. Chase Lane/ Fuerte Drive
2. Avocado Blvd/ Fuerte drive

TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	R Peaslee/V Haskell/J Bavos	Intersection	Fuerte/Chase Ln
Agency/Co.	Darnell & Associates Inc.	Jurisdiction	County of San Diego
Date Performed	01/26/09	Analysis Year	Existing
Analysis Time Period	AM Peak		

Project Description 030204 - Fuerte Farms

East/West Street: Fuerte Drive | North/South Street: Chase Lane

Intersection Orientation: East-West | Study Period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street	Eastbound			Westbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)	14	92	1	2	117	13
Peak-Hour Factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84
Hourly Flow Rate, HFR (veh/h)	16	109	1	2	139	15
Percent Heavy Vehicles	2	--	--	2	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration	LTR			LTR		
Upstream Signal		0			0	

Minor Street	Northbound			Southbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)	3	2	2	4	0	15
Peak-Hour Factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84
Hourly Flow Rate, HFR (veh/h)	3	2	2	4	0	17
Percent Heavy Vehicles	2	2	2	2	2	2
Percent Grade (%)		0			0	
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration		LTR			LTR	

Delay, Queue Length, and Level of Service

Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LTR	LTR		LTR			LTR	
v (veh/h)	16	2		7			21	
C (m) (veh/h)	1426	1480		688			839	
v/c	0.01	0.00		0.01			0.03	
95% queue length	0.03	0.00		0.03			0.08	
Control Delay (s/veh)	7.6	7.4		10.3			9.4	
LOS	A	A		B			A	
Approach Delay (s/veh)	--	--	10.3			9.4		
Approach LOS	--	--	B			A		

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TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	R Peaslee/V Haskell/J Bavos	Intersection	Fuerte/Chase Ln
Agency/Co.	Darnell & Associates Inc.	Jurisdiction	County of San Diego
Date Performed	01/26/09	Analysis Year	Existing
Analysis Time Period	PM Peak		

Project Description 030204 - Fuerte Farms

East/West Street: Fuerte Drive | North/South Street: Chase Lane

Intersection Orientation: East-West | Study Period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street	Eastbound			Westbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)	12	106	1	2	96	14
Peak-Hour Factor, PHF	0.79	0.79	0.79	0.79	0.79	0.79
Hourly Flow Rate, HFR (veh/h)	15	134	1	2	121	17
Percent Heavy Vehicles	2	--	--	2	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration	LTR			LTR		
Upstream Signal		0			0	

Minor Street	Northbound			Southbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)	1	4	2	19	5	28
Peak-Hour Factor, PHF	0.79	0.79	0.79	0.79	0.79	0.79
Hourly Flow Rate, HFR (veh/h)	1	5	2	24	6	35
Percent Heavy Vehicles	2	2	2	2	2	2
Percent Grade (%)		0			0	
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration		LTR			LTR	

Delay, Queue Length, and Level of Service

Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LTR	LTR		LTR			LTR	
v (veh/h)	15	2		8			65	
C (m) (veh/h)	1446	1449		657			760	
v/c	0.01	0.00		0.01			0.09	
95% queue length	0.03	0.00		0.04			0.28	
Control Delay (s/veh)	7.5	7.5		10.5			10.2	
LOS	A	A		B			B	
Approach Delay (s/veh)	--	--	10.5			10.2		
Approach LOS	--	--	B			B		

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SHORT REPORT

General Information		Site Information	
Analyst	R Peaslee/V Haskell/J Bavos	Intersection	Fuerte Dr/Avocado Blvd
Agency or Co.	Damell & Associates	Area Type	All other areas
Date Performed	01/26/09	Jurisdiction	County of San Diego
Time Period	AM Peak Hour	Analysis Year	Existing

Volume and Timing Input

	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	1	1	1	1	1	1	2	0	1	2	0
Lane Group	L	T	R	L	T	R	L	TR		L	TR	
Volume (vph)	63	41	115	82	116	16	262	565	31	13	531	111
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Pretimed/Actuated (P/A)	A	A	A	A	A	A	A	A	A	A	A	A
Startup Lost Time	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	
Arrival Type	3	3	3	3	3	3	3	3		3	3	
Unit Extension	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0	0	0	0	0	0	0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	

Phasing	EB Only	WB Only	03	04	Excl. Left	NB Only	Thru & RT	08
Timing	G = 10.0	G = 16.5	G =	G =	G = 12.0	G = 7.0	G = 31.5	G =
	Y = 4.5	Y = 4.5	Y =	Y =	Y = 4.5	Y = 0	Y = 4.5	Y =

Duration of Analysis (hrs) = 0.25 Cycle Length C = 95.0

Lane Group Capacity, Control Delay, and LOS Determination

	EB			WB			NB			SB		
Adjusted Flow Rate	75	49	137	98	138	19	312	710		15	764	
Lane Group Capacity	186	196	558	307	324	550	438	1426		224	1146	
v/c Ratio	0.40	0.25	0.25	0.32	0.43	0.03	0.71	0.50		0.07	0.67	
Green Ratio	0.11	0.11	0.35	0.17	0.17	0.35	0.25	0.41		0.13	0.33	
Uniform Delay d_1	39.7	39.1	21.8	34.3	35.0	20.5	32.7	21.0		36.6	27.2	
Delay Factor k	0.11	0.11	0.11	0.11	0.11	0.11	0.28	0.11		0.11	0.24	
Incremental Delay d_2	1.4	0.7	0.2	0.6	0.9	0.0	5.4	0.3		0.1	1.5	
PF Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.000	1.000	
Control Delay	41.1	39.7	22.0	34.9	35.9	20.5	38.0	21.3		36.7	28.7	
Lane Group LOS	D	D	C	C	D	C	D	C		D	C	
Approach Delay	30.8			34.4			26.4			28.9		
Approach LOS	C			C			C			C		
Intersection Delay	28.6			Intersection LOS						C		

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SHORT REPORT

General Information		Site Information	
Analyst	R Peaslee/V Haskell/J Bavos	Intersection	Fuerte Dr/Avocado Blvd
Agency or Co.	Darnell & Associates	Area Type	All other areas
Date Performed	01/26/09	Jurisdiction	County of San Diego
Time Period	PM Peak Hour	Analysis Year	Existing

Volume and Timing Input

	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	1	1	1	1	1	1	2	0	1	2	0
Lane Group	L	T	R	L	T	R	L	TR		L	TR	
Volume (vph)	85	94	409	67	46	10	159	715	74	20	862	95
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Pretimed/Actuated (P/A)	A	A	A	A	A	A	A	A	A	A	A	A
Startup Lost Time	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	
Arrival Type	3	3	3	3	3	3	3	3		3	3	
Unit Extension	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0	0	0	0	0	0	0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	

Phasing	EB Only	WB Only	03	04	Excl. Left	NB Only	Thru & RT	08
Timing	G = 15.0	G = 14.0	G =	G =	G = 15.0	G = 5.0	G = 34.0	G =
	Y = 4.5	Y = 4.5	Y =	Y =	Y = 4.5	Y = 0	Y = 4.5	Y =

Duration of Analysis (hrs) = 0.25 Cycle Length C = 101.0

Lane Group Capacity, Control Delay, and LOS Determination

	EB			WB			NB			SB		
Adjusted Flow Rate	87	96	417	68	47	10	162	806		20	977	
Lane Group Capacity	263	277	619	245	258	525	429	1350		263	1176	
v/c Ratio	0.33	0.35	0.67	0.28	0.18	0.02	0.38	0.60		0.08	0.83	
Green Ratio	0.15	0.15	0.39	0.14	0.14	0.33	0.24	0.39		0.15	0.34	
Uniform Delay d_1	38.5	38.6	25.4	39.0	38.4	22.7	31.9	24.7		37.0	30.9	
Delay Factor k	0.11	0.11	0.25	0.11	0.11	0.11	0.11	0.19		0.11	0.37	
Incremental Delay d_2	0.7	0.8	2.9	0.6	0.3	0.0	0.6	0.7		0.1	5.2	
PF Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.000	1.000	
Control Delay	39.2	39.4	28.3	39.6	38.8	22.7	32.5	25.5		37.2	36.0	
Lane Group LOS	D	D	C	D	D	C	C	C		D	D	
Approach Delay	31.7			37.9			26.6			36.1		
Approach LOS	C			D			C			D		
Intersection Delay	31.8			Intersection LOS						C		

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SHORT REPORT

General Information		Site Information	
Analyst	R Peaslee/V Haskell/J Bavos	Intersection	Fuerte Dr/Avocado Blvd
Agency or Co.	Darnell & Associates	Area Type	All other areas
Date Performed	01/26/09	Jurisdiction	County of San Diego
Time Period	AM Peak Hour	Analysis Year	Existing + Project

Volume and Timing Input

	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	1	1	1	1	1	1	2	0	1	2	0
Lane Group	L	T	R	L	T	R	L	TR		L	TR	
Volume (vph)	63	44	115	88	124	18	262	565	34	14	531	111
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Pretimed/Actuated (P/A)	A	A	A	A	A	A	A	A	A	A	A	A
Startup Lost Time	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	
Arrival Type	3	3	3	3	3	3	3	3		3	3	
Unit Extension	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0	0	0	0	0	0	0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	

Phasing	EB Only	WB Only	03	04	Excl. Left	NB Only	Thru & RT	08
Timing	G = 10.0	G = 16.5	G =	G =	G = 12.0	G = 7.0	G = 31.5	G =
	Y = 4.5	Y = 4.5	Y =	Y =	Y = 4.5	Y = 0	Y = 4.5	Y =

Duration of Analysis (hrs) = 0.25 Cycle Length C = 95.0

Lane Group Capacity, Control Delay, and LOS Determination

	EB			WB			NB			SB		
Adjusted Flow Rate	75	52	137	105	148	21	312	713		17	764	
Lane Group Capacity	186	196	558	307	324	550	438	1425		224	1146	
v/c Ratio	0.40	0.27	0.25	0.34	0.46	0.04	0.71	0.50		0.08	0.67	
Green Ratio	0.11	0.11	0.35	0.17	0.17	0.35	0.25	0.41		0.13	0.33	
Uniform Delay d_1	39.7	39.1	21.8	34.5	35.2	20.5	32.7	21.1		36.6	27.2	
Delay Factor k	0.11	0.11	0.11	0.11	0.11	0.11	0.28	0.11		0.11	0.24	
Incremental Delay d_2	1.4	0.7	0.2	0.7	1.0	0.0	5.4	0.3		0.1	1.5	
PF Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.000	1.000	
Control Delay	41.1	39.8	22.0	35.2	36.3	20.5	38.0	21.4		36.8	28.7	
Lane Group LOS	D	D	C	D	D	C	D	C		D	C	
Approach Delay	31.0			34.6			26.4			28.9		
Approach LOS	C			C			C			C		
Intersection Delay	28.7			Intersection LOS						C		

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SHORT REPORT

General Information		Site Information	
Analyst	*R Peaslee/V Haskell/J Bavos*	Intersection	*Fuerte Dr/Avocado Blvd*
Agency or Co.	*Darnell & Associates*	Area Type	*All other areas*
Date Performed	*01/26/09*	Jurisdiction	*County of San Diego*
Time Period	*PM Peak Hour*	Analysis Year	*Existing + Project*

Volume and Timing Input

	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Number of Lanes	1	1	1	1	1	1	1	2	0	1	2	0
Lane Group	L	T	R	L	T	R	L	TR		L	TR	
Volume (vph)	85	104	409	70	50	11	159	715	82	22	862	95
% Heavy Vehicles	2	2	2	2	2	2	2	2	2	2	2	2
PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Pretimed/Actuated (P/A)	A	A	A	A	A	A	A	A	A	A	A	A
Startup Lost Time	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	
Extension of Effective Green	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	
Arrival Type	3	3	3	3	3	3	3	3		3	3	
Unit Extension	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Ped/Bike/RTOR Volume	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0		12.0	12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/Hour												
Bus Stops/Hour	0	0	0	0	0	0	0	0		0	0	
Minimum Pedestrian Time		3.2			3.2			3.2			3.2	

Phasing	EB Only	WB Only	03	04	Excl. Left	NB Only	Thru & RT	08
Timing	G = 15.0	G = 14.0	G =	G =	G = 15.0	G = 5.0	G = 34.0	G =
	Y = 4.5	Y = 4.5	Y =	Y =	Y = 4.5	Y = 0	Y = 4.5	Y =

Duration of Analysis (hrs) = 0.25 | Cycle Length C = 101.0

Lane Group Capacity, Control Delay, and LOS Determination

	EB			WB			NB			SB		
Adjusted Flow Rate	87	106	417	71	51	11	162	814		22	977	
Lane Group Capacity	263	277	619	245	258	525	429	1348		263	1176	
v/c Ratio	0.33	0.38	0.67	0.29	0.20	0.02	0.38	0.60		0.08	0.83	
Green Ratio	0.15	0.15	0.39	0.14	0.14	0.33	0.24	0.39		0.15	0.34	
Uniform Delay d_1	38.5	38.8	25.4	39.0	38.5	22.7	31.9	24.8		37.1	30.9	
Delay Factor k	0.11	0.11	0.25	0.11	0.11	0.11	0.11	0.19		0.11	0.37	
Incremental Delay d_2	0.7	0.9	2.9	0.7	0.4	0.0	0.6	0.8		0.1	5.2	
PF Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.000	1.000	
Control Delay	39.2	39.7	28.3	39.7	38.9	22.7	32.5	25.6		37.2	36.0	
Lane Group LOS	D	D	C	D	D	C	C	C		D	D	
Approach Delay	31.9			38.0			26.7			36.1		
Approach LOS	C			D			C			D		
Intersection Delay	31.9			Intersection LOS						C		

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TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	R Peaslee/V Haskell/J Bavos	Intersection	Fuerte/Chase Ln
Agency/Co.	Darnell & Associates Inc.	Jurisdiction	County of San Diego
Date Performed	01/26/09	Analysis Year	Existing Plus Project
Analysis Time Period	PM Peak		

Project Description 030204 - Fuerte Farms

East/West Street: Fuerte Drive | North/South Street: Chase Lane

Intersection Orientation: East-West | Study Period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street	Eastbound			Westbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)	12	111	1	2	109	14
Peak-Hour Factor, PHF	0.79	0.79	0.79	0.79	0.79	0.79
Hourly Flow Rate, HFR (veh/h)	15	140	1	2	137	17
Percent Heavy Vehicles	2	--	--	2	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration	LTR			LTR		
Upstream Signal		0			0	

Minor Street	Northbound			Southbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)	1	4	2	19	5	29
Peak-Hour Factor, PHF	0.79	0.79	0.79	0.79	0.79	0.79
Hourly Flow Rate, HFR (veh/h)	1	5	2	24	6	36
Percent Heavy Vehicles	2	2	2	2	2	2
Percent Grade (%)		0			0	
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration		LTR			LTR	

Delay, Queue Length, and Level of Service

Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LTR	LTR		LTR			LTR	
v (veh/h)	15	2		8			66	
C (m) (veh/h)	1426	1442		640			741	
v/c	0.01	0.00		0.01			0.09	
95% queue length	0.03	0.00		0.04			0.29	
Control Delay (s/veh)	7.6	7.5		10.7			10.3	
LOS	A	A		B			B	
Approach Delay (s/veh)	--	--	10.7			10.3		
Approach LOS	--	--	B			B		

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TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	R Peaslee/V Haskell/J Bavos	Intersection	Fuerte/Chase Ln
Agency/Co.	Darnell & Associates Inc.	Jurisdiction	County of San Diego
Date Performed	01/26/09	Analysis Year	Existing Plus Project
Analysis Time Period	AM Peak		

Project Description	030204 - Fuerte Farms
East/West Street: Fuerte Drive	North/South Street: Chase Lane
Intersection Orientation: East-West	Study Period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street	Eastbound			Westbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)	15	102	1	2	121	13
Peak-Hour Factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84
Hourly Flow Rate, HFR (veh/h)	17	121	1	2	144	15
Percent Heavy Vehicles	2	--	--	2	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration	LTR			LTR		
Upstream Signal		0			0	

Minor Street	Northbound			Southbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)	3	2	2	4	0	15
Peak-Hour Factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84
Hourly Flow Rate, HFR (veh/h)	3	2	2	4	0	17
Percent Heavy Vehicles	2	2	2	2	2	2
Percent Grade (%)		0			0	
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration		LTR			LTR	

Delay, Queue Length, and Level of Service

Approach	Eastbound	Westbound	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LTR	LTR		LTR			LTR	
v (veh/h)	17	2		7			21	
C (m) (veh/h)	1420	1465		671			828	
v/c	0.01	0.00		0.01			0.03	
95% queue length	0.04	0.00		0.03			0.08	
Control Delay (s/veh)	7.6	7.5		10.4			9.5	
LOS	A	A		B			A	
Approach Delay (s/veh)	--	--	10.4			9.5		
Approach LOS	--	--	B			A		

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Intersection Turning Movement

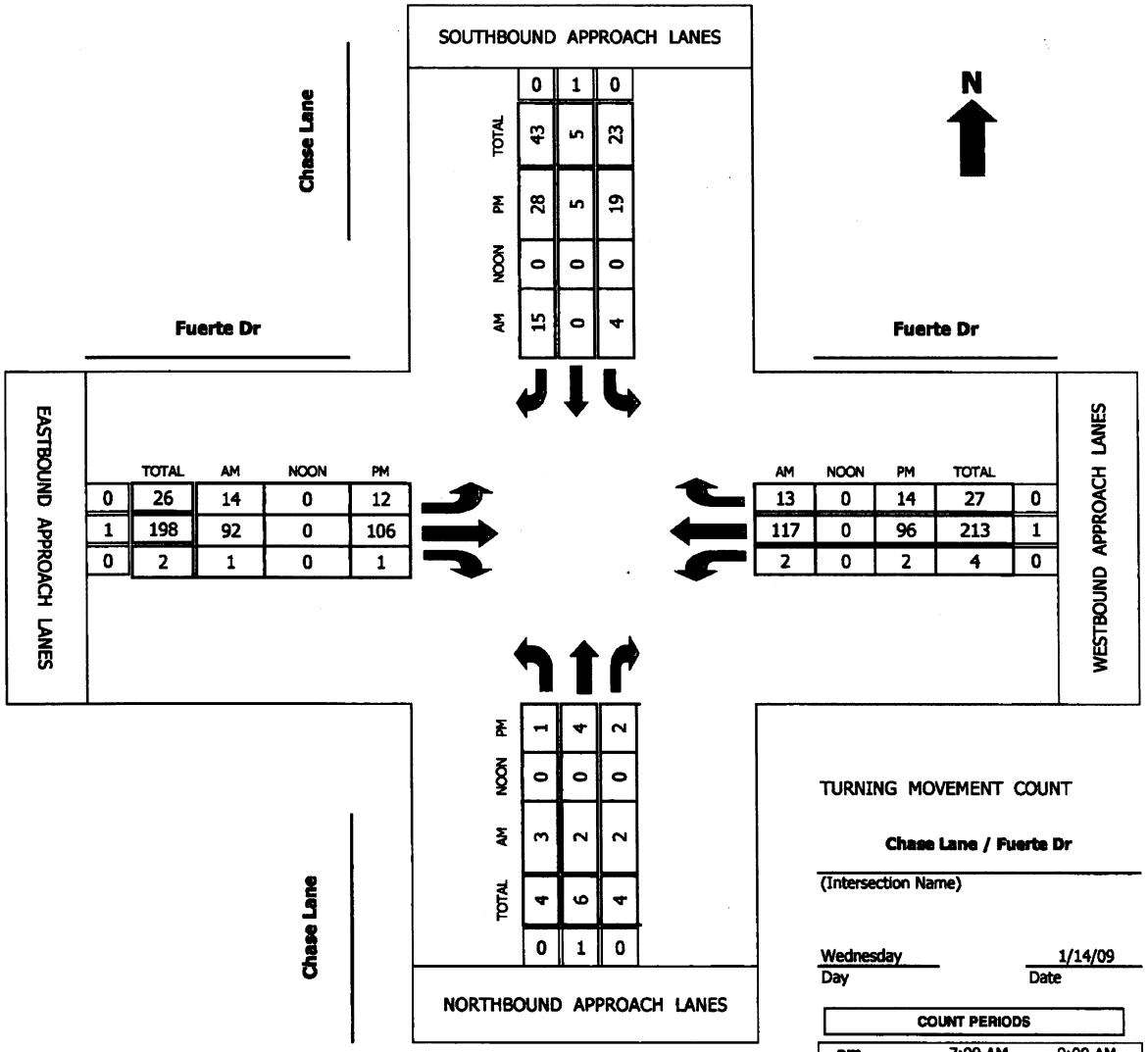
Prepared by:

NDS

National Data & Surveying Services

TMC Summary of Chase Lane/Fuerte Dr

Project #: 09-4022-002



	TOTAL	AM	NOON	PM
0	26	14	0	12
1	198	92	0	106
0	2	1	0	1

	AM	NOON	PM	TOTAL	
	13	0	14	27	0
	117	0	96	213	1
	2	0	2	4	0

TOTAL	43	5	23
PM	28	5	19
NOON	0	0	0
AM	15	0	4
	0	1	0

PM	1	4	2
NOON	0	0	0
AM	3	2	2
TOTAL	4	6	4
	0	1	0

TURNING MOVEMENT COUNT

Chase Lane / Fuerte Dr

(Intersection Name)

Wednesday — Day

1/14/09 — Date

COUNT PERIODS			
am	7:00 AM	-	9:00 AM
noon		-	
pm	4:00 PM	-	6:00 PM

CONTROL: Signalized

AM PEAK HOUR	730 AM
NOON PEAK HOUR	0 AM
PM PEAK HOUR	430 PM

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

N-S STREET: Chase Lane DATE: 01/14/2009 LOCATION: City of El Cajon

E-W STREET: Fuerte Dr DAY: WEDNESDAY PROJECT# 09-4022-002

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	0	1	0	0	1	0	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	1	0	1	0		4	2	63	0	1	29	1	102
7:15 AM	0	0	0	2		1	3	15	0	0	45	4	70
7:30 AM	3	0	0	0		2	3	7	0	0	25	4	44
7:45 AM	0	0	0	1		5	2	17	0	0	19	3	47
8:00 AM	0	1	2	2		4	2	41	0	1	23	4	80
8:15 AM	0	1	0	1		4	7	27	1	1	50	2	94
8:30 AM	0	1	0	2		3	3	11	0	0	13	3	36
8:45 AM	0	1	0	2		5	3	17	0	0	17	3	48
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 4	NT 4	NR 3	SL 10	ST 0	SR 28	EL 25	ET 198	ER 1	WL 3	WT 221	WR 24	TOTAL 521

AM Peak Hr Begins at: 730 AM

PEAK VOLUMES =	3	2	2	4	0	15	14	92	1	2	117	13	265
PEAK HR. FACTOR:		0.583			0.792			0.622			0.623		0.705

CONTROL: Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

N-S STREET: Chase Lane DATE: 01/14/2009 LOCATION: City of El Cajon

E-W STREET: Fuerte Dr DAY: WEDNESDAY PROJECT# 09-4022-002

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	0	1	0	0	1	0	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	1	0	0	5	0	5	7	17	2	0	20	2	59
4:15 PM	0	1	0	2	1	3	3	24	0	0	17	4	55
4:30 PM	0	1	0	3	0	6	4	30	1	0	26	4	75
4:45 PM	0	1	1	6	1	9	4	31	0	0	27	4	84
5:00 PM	0	0	0	4	1	6	2	20	0	1	15	5	54
5:15 PM	1	2	1	6	3	7	2	25	0	1	28	1	77
5:30 PM	0	0	0	6	2	7	5	19	0	0	20	1	60
5:45 PM	0	1	1	4	0	4	2	27	1	0	9	2	51
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	NL 2	NT 6	NR 3	SL 36	ST 8	SR 47	EL 29	ET 193	ER 4	WL 2	WT 162	WR 23	TOTAL 515

PM Peak Hr Begins at: 430 PM

PEAK VOLUMES =	1	4	2	19	5	28	12	106	1	2	96	14	290
PEAK HR. FACTOR:		0.438			0.813			0.850			0.903		0.863

CONTROL: Signalized

Intersection Turning Movement

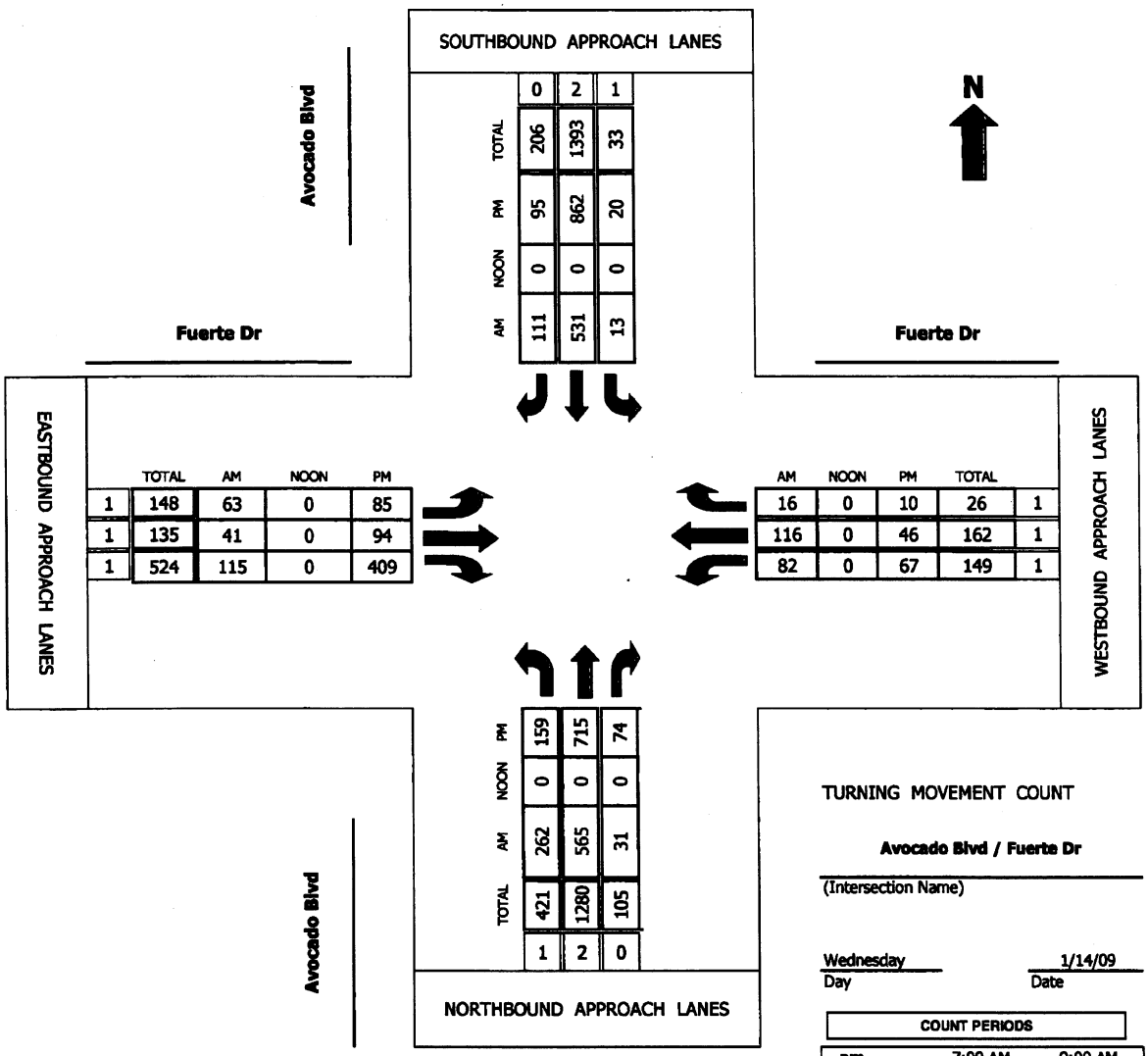
Prepared by:

NDS

National Data & Surveying Services

TMC Summary of Avocado Blvd/Fuerte Dr

Project #: 09-4022-001



	TOTAL	AM	NOON	PM
0	206	111	0	95
2	1393	531	0	862
1	33	13	0	20

	TOTAL	AM	NOON	PM
1	421	262	0	159
2	1280	565	0	715
0	105	31	0	74

	TOTAL	AM	NOON	PM
1	148	63	0	85
1	135	41	0	94
1	524	115	0	409

AM	NOON	PM	TOTAL	
16	0	10	26	1
116	0	46	162	1
82	0	67	149	1

TURNING MOVEMENT COUNT

Avocado Blvd / Fuerte Dr

(Intersection Name)

Wednesday — Day

1/14/09 — Date

COUNT PERIODS			
am	7:00 AM	-	9:00 AM
noon		-	
pm	4:00 PM	-	6:00 PM

CONTROL: Signalized

AM PEAK HOUR	730 AM
NOON PEAK HOUR	0 AM
PM PEAK HOUR	430 PM

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

N-S STREET: Avocado Blvd DATE: 01/14/2009 LOCATION: City of La Mesa

E-W STREET: Fuerte Dr DAY: WEDNESDAY PROJECT# 09-4022-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	2	0	1	1	1	1	1	1	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	54	106	12	2	83	24	7	15	26	16	23	6	374
7:15 AM	61	95	5	2	108	28	13	6	22	15	35	3	393
7:30 AM	81	148	1	4	126	32	4	3	28	22	32	5	486
7:45 AM	71	157	11	3	163	32	17	12	32	23	27	1	549
8:00 AM	53	135	9	3	131	25	20	20	28	26	15	5	470
8:15 AM	57	125	10	3	111	22	22	6	27	11	42	5	441
8:30 AM	51	125	7	1	129	25	10	5	39	10	28	2	432
8:45 AM	43	114	11	5	136	27	16	13	34	18	13	2	432
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	NL 471	NT 1005	NR 66	SL 23	ST 987	SR 215	EL 109	ET 80	ER 236	WL 141	WT 215	WR 29	TOTAL 3577

AM Peak Hr Begins at: 730 AM

PEAK VOLUMES =	262	565	31	13	531	111	63	41	115	82	116	16	1946
PEAK HR. FACTOR:		0.897			0.827			0.805			0.907		0.886

CONTROL: Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

N-S STREET: Avocado Blvd DATE: 01/14/2009 LOCATION: City of La Mesa

E-W STREET: Fuerte Dr DAY: WEDNESDAY PROJECT# 09-4022-001

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	2	0	1	1	1	1	1	1	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	43	179	21	8	217	21	20	23	91	15	18	2	658
4:15 PM	45	162	22	9	190	14	30	25	95	22	8	3	625
4:30 PM	36	204	15	4	200	26	19	26	113	12	11	3	669
4:45 PM	36	144	18	8	214	23	19	22	101	23	4	6	618
5:00 PM	38	166	19	4	199	31	23	28	86	17	16	0	627
5:15 PM	49	201	22	4	249	15	24	18	109	15	15	1	722
5:30 PM	32	151	16	6	212	23	25	18	98	17	9	3	610
5:45 PM	33	152	9	4	178	17	30	24	94	11	9	0	561
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													
TOTAL VOLUMES =	312	1359	142	47	1659	170	190	184	787	132	90	18	5090

PM Peak Hr Begins at: 430 PM

PEAK VOLUMES =	159	715	74	20	862	95	85	94	409	67	46	10	2636
PEAK HR. FACTOR:		0.871			0.911			0.930			0.932		0.913

CONTROL: Signalized

A

Prepared by NDS/ATD

Volumes for: Thursday, January 15, 2009 **City:** El Cajon **Project #:** 09-4023-002

Location: Fuerte Dr W/o Damon Lane

AM Period	NB	SB	EB		WB			PM Period	NB	SB	EB		WB		
00:00			0		0			12:00			24		16		
00:15			1		1			12:15			22		20		
00:30			0		0			12:30			23		26		
00:45			0	1	0	1	2	12:45			23	92	22	84	176
01:00			2		1			13:00			18		23		
01:15			2		0			13:15			24		17		
01:30			0		0			13:30			45		18		
01:45			1	5	0	1	6	13:45			38	125	34	92	217
02:00			0		1			14:00			102		52		
02:15			1		0			14:15			32		39		
02:30			0		0			14:30			29		27		
02:45			1	2	0	1	3	14:45			38	201	26	144	345
03:00			1		0			15:00			24		29		
03:15			1		0			15:15			45		35		
03:30			1		0			15:30			28		28		
03:45			0	3	1	1	4	15:45			45	142	35	127	269
04:00			0		0			16:00			30		31		
04:15			0		0			16:15			42		24		
04:30			2		1			16:30			33		33		
04:45			0	2	2	3	5	16:45			31	136	25	113	249
05:00			0		3			17:00			30		30		
05:15			1		3			17:15			36		19		
05:30			5		4			17:30			41		28		
05:45			0	6	6	16	22	17:45			26	133	21	98	231
06:00			2		7			18:00			23		17		
06:15			2		14			18:15			16		14		
06:30			6		16			18:30			22		18		
06:45			10	20	29	66	86	18:45			13	74	12	61	135
07:00			18		22			19:00			18		12		
07:15			49		39			19:15			14		5		
07:30			25		45			19:30			11		11		
07:45			59	151	66	172	323	19:45			7	50	10	38	88
08:00			138		51			20:00			13		16		
08:15			48		56			20:15			12		12		
08:30			22		32			20:30			13		11		
08:45			13	221	23	162	383	20:45			8	46	7	46	92
09:00			23		21			21:00			10		8		
09:15			19		23			21:15			7		5		
09:30			11		31			21:30			6		5		
09:45			10	63	24	99	162	21:45			7	30	2	20	50
10:00			9		18			22:00			4		5		
10:15			19		22			22:15			9		1		
10:30			19		15			22:30			4		2		
10:45			26	73	15	70	143	22:45			2	19	0	8	27
11:00			10		11			23:00			3		1		
11:15			22		23			23:15			3		1		
11:30			19		20			23:30			5		2		
11:45			18	69	15	69	138	23:45			0	11	1	5	16
Total Vol.				616		661	**1277**					1059		836	**1895**

Daily Totals

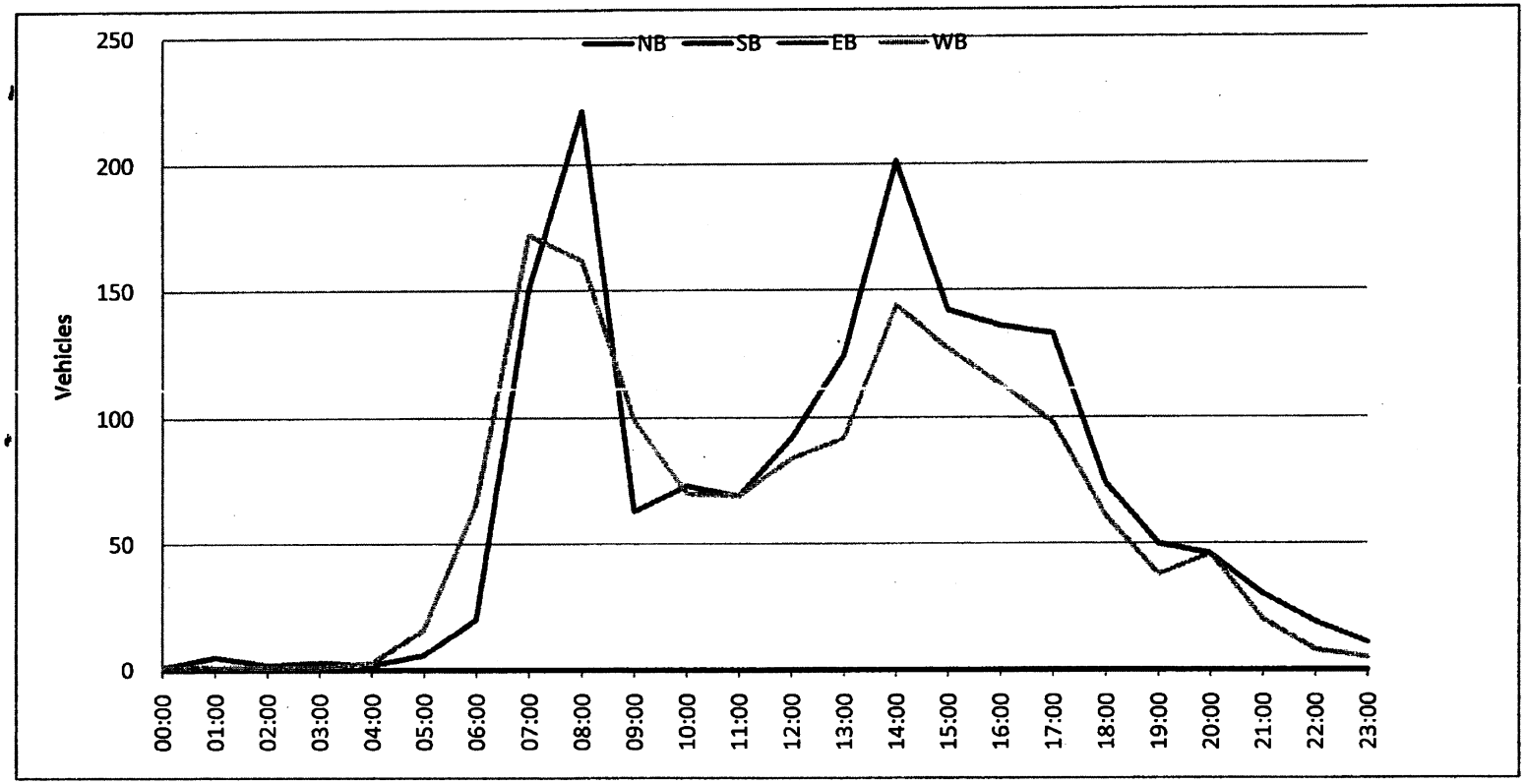
	NB	SB		EB	WB
			Combined	1675	1497
			3172		

	AM			PM		
Split %	48.2%	51.8%	40.3%	55.9%	44.1%	59.7%
Peak Hour	07:15	07:30	07:30	13:30	13:45	13:30
Volume	271	218	488	217	152	360
P.H.F.	0.49	0.83	0.65	0.53	0.73	0.58

Prepared by NDS/ATD

Project #: 09-4023-002 City: El Cajon

Location: Fuerte Dr W/o Damon Lane Date: Thursday, January 15, 2009



Prepared by NDS/ATD

Volumes for: Wednesday, January 14, 2009 **City:** El Cajon **Project #:** 09-4023-001

Location: Fuerte Dr W/o Avocado Blvd

AM Period	NB	SB	EB		WB			PM Period	NB	SB	EB		WB		
00:00			0		0			12:00			80		80		
00:15			10		4			12:15			88		73		
00:30			6		1			12:30			71		81		
00:45			5	21	4	9	30	12:45			70	309	76	310	619
01:00			4		1			13:00			79		55		
01:15			6		3			13:15			78		71		
01:30			2		1			13:30			83		65		
01:45			2	14	1	6	20	13:45			102	342	57	248	590
02:00			3		2			14:00			90		95		
02:15			3		1			14:15			93		84		
02:30			2		1			14:30			99		79		
02:45			4	12	2	6	18	14:45			119	401	81	339	740
03:00			1		2			15:00			133		80		
03:15			3		1			15:15			135		73		
03:30			3		1			15:30			121		82		
03:45			1	8	2	6	14	15:45			130	519	75	310	829
04:00			2		2			16:00			118		81		
04:15			3		1			16:15			149		77		
04:30			3		9			16:30			158		76		
04:45			2	10	5	17	27	16:45			147	572	90	324	896
05:00			7		9			17:00			170		73		
05:15			7		21			17:15			145		82		
05:30			4		19			17:30			166		68		
05:45			4	22	33	82	104	17:45			141	622	59	282	904
06:00			8		41			18:00			131		49		
06:15			10		57			18:15			131		68		
06:30			21		77			18:30			113		60		
06:45			36	75	98	273	348	18:45			94	469	52	229	698
07:00			35		109			19:00			74		38		
07:15			38		119			19:15			77		34		
07:30			62		117			19:30			60		38		
07:45			88	223	156	501	724	19:45			68	279	23	133	412
08:00			60		133			20:00			71		34		
08:15			46		99			20:15			60		33		
08:30			61		97			20:30			49		26		
08:45			48	215	95	424	639	20:45			51	231	20	113	344
09:00			36		70			21:00			59		21		
09:15			38		77			21:15			44		17		
09:30			32		77			21:30			21		20		
09:45			46	152	69	293	445	21:45			32	156	14	72	228
10:00			53		69			22:00			18		15		
10:15			50		70			22:15			21		5		
10:30			53		68			22:30			19		13		
10:45			44	200	71	278	478	22:45			11	69	8	41	110
11:00			49		74			23:00			17		8		
11:15			52		79			23:15			15		5		
11:30			61		73			23:30			9		1		
11:45			67	229	70	296	525	23:45			6	47	4	18	65
Total Vol.				1181		2191	**3372**					4016		2419	**6435**

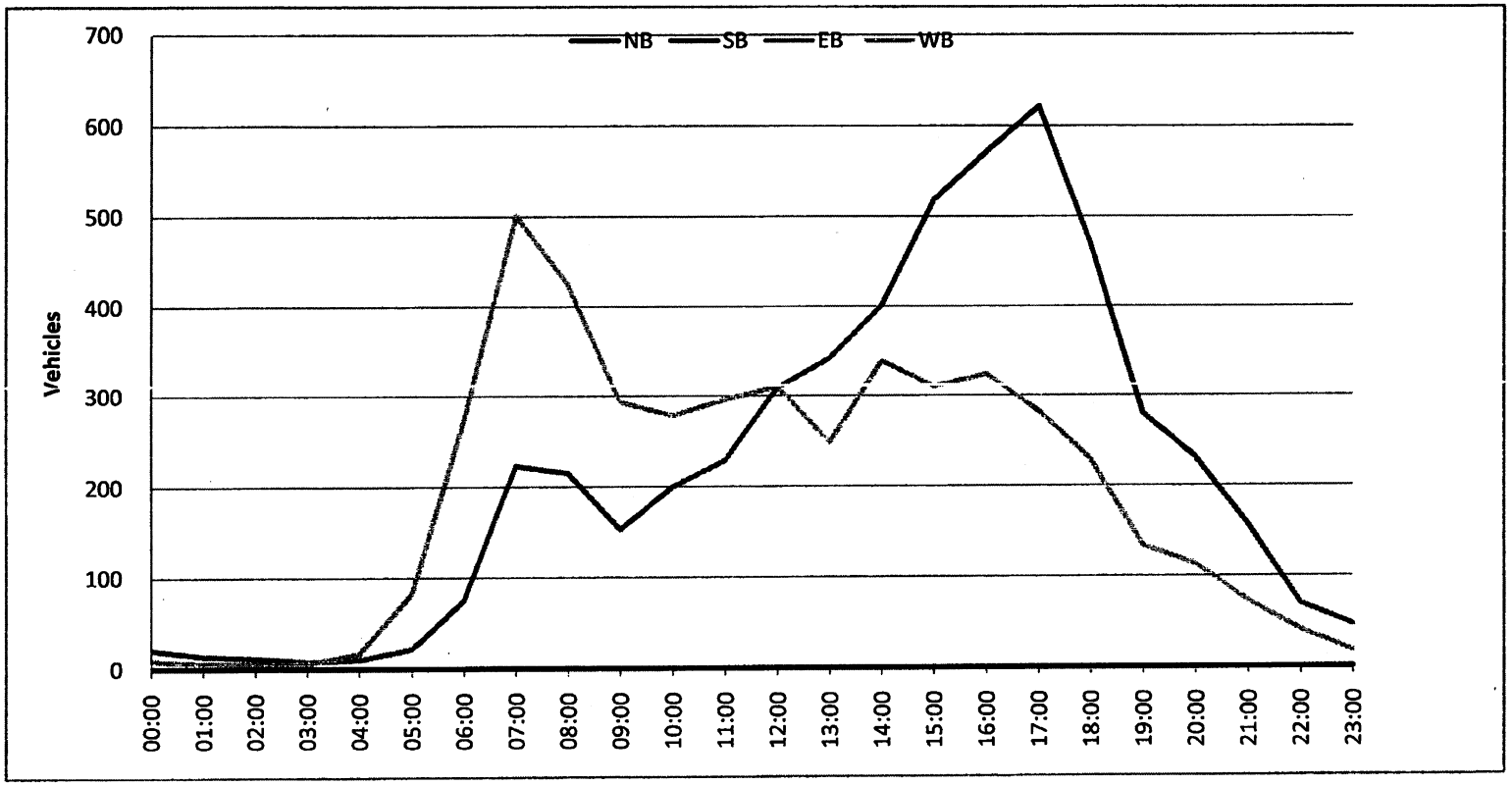
Daily Totals

	NB	SB		EB	WB
			Combined	5197	4610
			9807		

	AM			PM		
Split %	35.0%	65.0%	34.4%	62.4%	37.6%	65.6%
Peak Hour	11:45	07:15	07:15	16:45	14:00	16:30
Volume	306	525	773	628	339	941
P.H.F.	0.87	0.84	0.79	0.92	0.89	0.97

Project #: 09-4023-001 City: El Cajon

Location: Fuerte Dr W/o Avocado Blvd Date: Wednesday, January 14, 2009



Prepared by NDS/ATD

Volumes for: Thursday, January 15, 2009 **City:** El Cajon **Project #:** 09-4023-003

Location: Avocado Blvd S/o Fuerte Dr

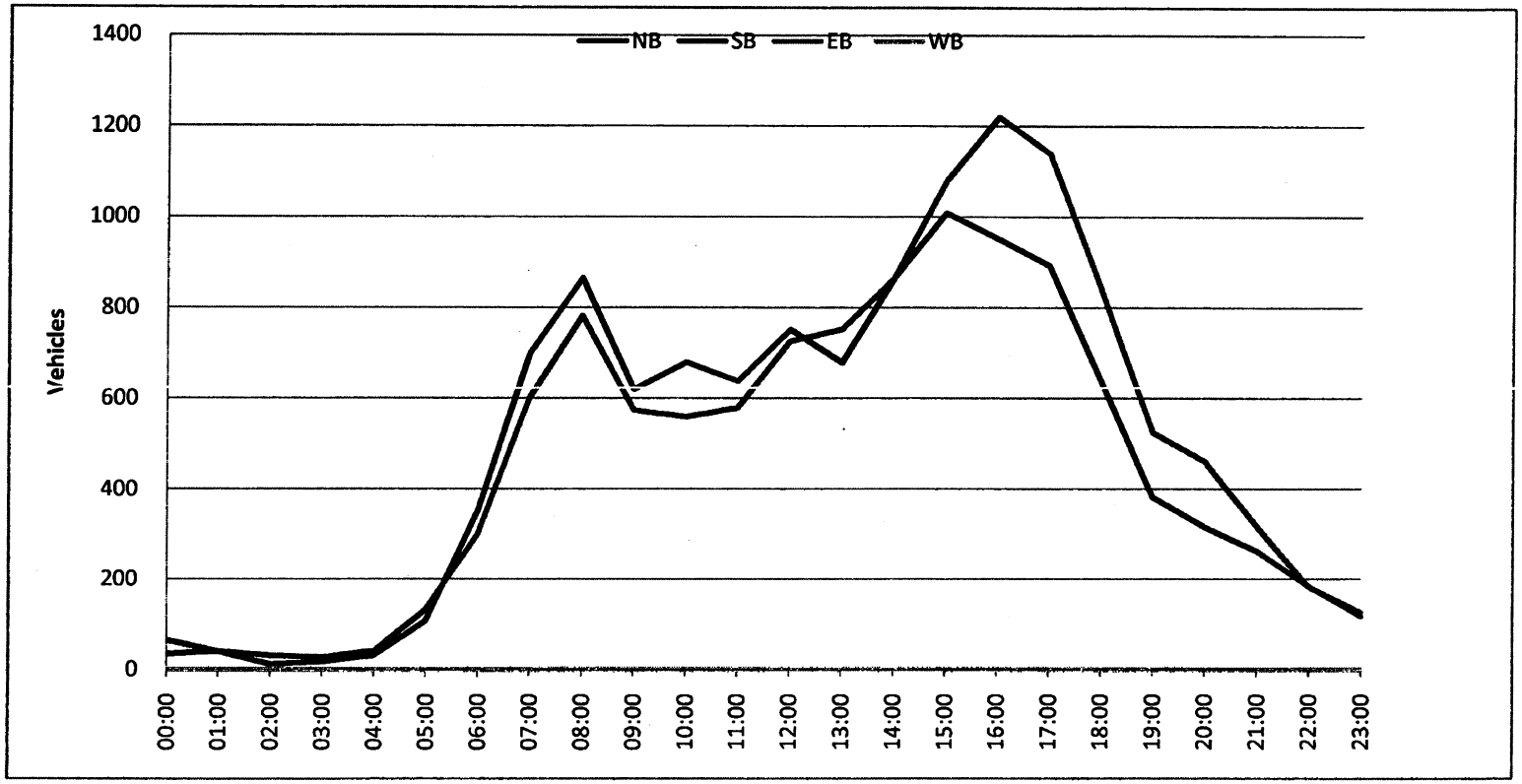
AM Period	NB		SB		EB	WB		PM Period	NB		SB		EB	WB	
00:00	0		0					12:00	211		158				
00:15	14		30					12:15	165		181				
00:30	11		23					12:30	187		195				
00:45	9	34	12	65			99	12:45	188	751	191	725			1476
01:00	10		10					13:00	163		177				
01:15	14		13					13:15	154		192				
01:30	7		14					13:30	182		200				
01:45	9	40	3	40			80	13:45	179	678	183	752			1430
02:00	4		11					14:00	239		199				
02:15	2		7					14:15	220		239				
02:30	4		9					14:30	183		210				
02:45	1	11	4	31			42	14:45	222	864	216	864			1728
03:00	7		9					15:00	226		231				
03:15	2		3					15:15	237		274				
03:30	3		10					15:30	271		300				
03:45	4	16	5	27			43	15:45	274	1008	274	1079			2087
04:00	8		9					16:00	264		321				
04:15	4		12					16:15	228		281				
04:30	7		8					16:30	235		286				
04:45	12	31	12	41			72	16:45	224	951	331	1219			2170
05:00	17		18					17:00	233		319				
05:15	16		30					17:15	239		288				
05:30	36		36					17:30	233		271				
05:45	38	107	48	132			239	17:45	186	891	261	1139			2030
06:00	63		67					18:00	175		221				
06:15	76		62					18:15	160		219				
06:30	92		68					18:30	164		225				
06:45	120	351	103	300			651	18:45	138	637	174	839			1476
07:00	141		142					19:00	119		143				
07:15	136		122					19:15	92		137				
07:30	196		152					19:30	91		123				
07:45	226	699	186	602			1301	19:45	79	381	120	523			904
08:00	290		262					20:00	88		129				
08:15	215		177					20:15	72		127				
08:30	184		166					20:30	81		97				
08:45	175	864	176	781			1645	20:45	73	314	107	460			774
09:00	192		167					21:00	80		95				
09:15	140		141					21:15	67		91				
09:30	150		140					21:30	63		65				
09:45	137	619	125	573			1192	21:45	51	261	65	316			577
10:00	154		138					22:00	54		50				
10:15	183		116					22:15	55		49				
10:30	154		144					22:30	46		50				
10:45	188	679	160	558			1237	22:45	27	182	32	181			363
11:00	166		123					23:00	38		35				
11:15	143		148					23:15	26		29				
11:30	165		171					23:30	14		36				
11:45	163	637	136	578			1215	23:45	39	117	24	124			241
Total Vol.		4088		3728			**7816**			7035		8221			**15256**

Daily Totals

NB	SB	Combined	EB	WB
11123	11949	23072		

	AM			PM		
Split %	52.3%	47.7%	33.9%	46.1%	53.9%	66.1%
Peak Hour	07:30	07:45	07:45	15:15	16:30	15:15
Volume	927	791	1706	1046	1224	2215
P.H.F.	0.80	0.75	0.77	0.96	0.93	0.95

Prepared by NDS/AMI

Project #: 09-4023-003 City: El Cajon

Location: Avocado Blvd S/o Fuerte Dr Date: Thursday, January 15, 2009