Appendix E

Noise Models

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: 24th Street west of US 101

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	17,180	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	1,308	vehicles
Total Cumulative Growth Volume (ADT):	2,112	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	30	30	30
Medium Truck	30	30	30
Heavy Truck	30	30	30

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	30	30	30
Medium Truck	30	30	30
Heavy Truck	30	30	30

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: 24th Street west of US 101

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	65.5 dBA	#N/A	#N/A	54	116	249
Existing + Project	65.7 dBA	#N/A	#N/A	56	121	260
Future with Ambient Growth	65.5 dBA	#N/A	#N/A	54	116	249
Future with Ambient Growth and Project	65.7 dBA	#N/A	#N/A	56	121	260
Future with Ambient Growth and Cumulative Projects	66.0 dBA	#N/A	#N/A	58	125	269
Future with Ambient, Cumulative, and Project Growth	66.2 dBA	#N/A	#N/A	60	130	279

Change in Noise Levels	
Due to Project	0.3 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.5 dBA
Due to All Future Growth	0.8 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	66.0 dBA	#N/A	#N/A	58	125	269
Existing + Project	66.2 dBA	#N/A	#N/A	60	130	281
Future with Ambient Growth	66.0 dBA	#N/A	#N/A	58	125	269
Future with Ambient Growth and Project	66.2 dBA	#N/A	#N/A	60	130	281
Future with Ambient Growth and Cumulative Projects	66.5 dBA	#N/A	#N/A	62	135	290
Future with Ambient, Cumulative, and Project Growth	66.7 dBA	#N/A	#N/A	65	140	302

Change in Noise Levels	
Due to Project	0.3 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.5 dBA
Due to All Future Growth	0.8 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Airport Road north of S.R. 46

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):	TNM
Distance to Receptor:	50 feet
Site Condition (Hard or Soft):	Hard
Upgrade longer than 1 mile:	0 %
Existing Total Traffic Volume (ADT):	4,620 vehicles
Ambient Growth Factor:	0.0%
Future Year :	2010
Total Project Volume (ADT):	1,258 vehicles
Total Cumulative Growth Volume (ADT):	2,822 vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.7%
Medium Truck	1.8%	0.5%	1.6%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Airport Road north of S.R. 46

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	64.6 dBA	#N/A	#N/A	45	101	217
Existing + Project	65.5 dBA	#N/A	#N/A	54	117	252
Future with Ambient Growth	64.6 dBA	#N/A	#N/A	45	101	217
Future with Ambient Growth and Project	65.5 dBA	#N/A	#N/A	54	117	252
Future with Ambient Growth and Cumulative Projects	66.6 dBA	#N/A	#N/A	64	138	298
Future with Ambient, Cumulative, and Project Growth	67.3 dBA	#N/A	27	71	152	328

Change in Noise Levels	
Due to Project	1.0 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	2.1 dBA
Due to All Future Growth	2.7 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	65.1 dBA	#N/A	#N/A	51	109	236
Existing + Project	66.1 dBA	#N/A	#N/A	59	127	274
Future with Ambient Growth	65.1 dBA	#N/A	#N/A	51	109	236
Future with Ambient Growth and Project	66.1 dBA	#N/A	#N/A	59	127	274
Future with Ambient Growth and Cumulative Projects	67.2 dBA	#N/A	26	70	150	323
Future with Ambient, Cumulative, and Project Growth	67.8 dBA	#N/A	30	77	166	357

Change in Noise Levels	
Due to Project	1.0 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	2.1 dBA
Due to All Future Growth	2.7 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Charolais Road east of River Road

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	7,820	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	0	vehicles
Total Cumulative Growth Volume (ADT):	1,680	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.5%
Medium Truck	1.8%	0.5%	1.8%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Charolais Road east of River Road

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	66.9 dBA	#N/A	#N/A	66	143	308
Existing + Project	66.9 dBA	#N/A	#N/A	66	143	308
Future with Ambient Growth	66.9 dBA	#N/A	#N/A	66	143	308
Future with Ambient Growth and Project	66.9 dBA	#N/A	#N/A	66	143	308
Future with Ambient Growth and Cumulative Projects	67.7 dBA	#N/A	29	76	163	351
Future with Ambient, Cumulative, and Project Growth	67.7 dBA	#N/A	29	76	163	351

Change in Noise Levels	
Due to Project	0.0 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.8 dBA
Due to All Future Growth	0.8 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	67.4 dBA	#N/A	27	72	155	335
Existing + Project	67.4 dBA	#N/A	27	72	155	335
Future with Ambient Growth	67.4 dBA	#N/A	27	72	155	335
Future with Ambient Growth and Project	67.4 dBA	#N/A	27	72	155	335
Future with Ambient Growth and Cumulative Projects	68.2 dBA	#N/A	33	82	177	381
Future with Ambient, Cumulative, and Project Growth	68.2 dBA	#N/A	33	82	177	381

Change in Noise Levels	
Due to Project	0.0 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.8 dBA
Due to All Future Growth	0.8 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Creston Road east of River Road

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	16,930	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	1,087	vehicles
Total Cumulative Growth Volume (ADT):	583	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Creston Road east of River Road

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	67.1 dBA	#N/A	26	69	149	321
Existing + Project	67.4 dBA	#N/A	27	72	155	333
Future with Ambient Growth	67.1 dBA	#N/A	26	69	149	321
Future with Ambient Growth and Project	67.4 dBA	#N/A	27	72	155	333
Future with Ambient Growth and Cumulative Projects	67.3 dBA	#N/A	27	71	152	328
Future with Ambient, Cumulative, and Project Growth	67.5 dBA	#N/A	28	73	158	340

Change in Noise Levels	
Due to Project	0.2 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.1 dBA
Due to All Future Growth	0.4 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	67.6 dBA	#N/A	29	75	161	348
Existing + Project	67.9 dBA	#N/A	31	78	168	361
Future with Ambient Growth	67.6 dBA	#N/A	29	75	161	348
Future with Ambient Growth and Project	67.9 dBA	#N/A	31	78	168	361
Future with Ambient Growth and Cumulative Projects	67.8 dBA	#N/A	30	77	165	355
Future with Ambient, Cumulative, and Project Growth	68.0 dBA	#N/A	32	79	171	369

Change in Noise Levels	
Due to Project	0.2 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.1 dBA
Due to All Future Growth	0.4 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Creston Road east of US 101

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	23,250	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	1,644	vehicles
Total Cumulative Growth Volume (ADT):	5,206	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Creston Road east of US 101

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	68.5 dBA	#N/A	35	85	184	397
Existing + Project	68.8 dBA	#N/A	38	89	192	413
Future with Ambient Growth	68.5 dBA	#N/A	35	85	184	397
Future with Ambient Growth and Project	68.8 dBA	#N/A	38	89	192	413
Future with Ambient Growth and Cumulative Projects	69.4 dBA	#N/A	43	98	211	454
Future with Ambient, Cumulative, and Project Growth	69.6 dBA	#N/A	45	101	218	469

Change in Noise Levels	
Due to Project	0.3 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.9 dBA
Due to All Future Growth	1.1 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	69.0 dBA	#N/A	40	92	199	429
Existing + Project	69.3 dBA	#N/A	42	96	208	448
Future with Ambient Growth	69.0 dBA	#N/A	40	92	199	429
Future with Ambient Growth and Project	69.3 dBA	#N/A	42	96	208	448
Future with Ambient Growth and Cumulative Projects	69.9 dBA	#N/A	49	106	228	491
Future with Ambient, Cumulative, and Project Growth	70.1 dBA	#N/A	51	109	236	508

Change in Noise Levels	
Due to Project	0.3 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.9 dBA
Due to All Future Growth	1.1 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Creston Road south of Niblick Road

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	12,870	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	452	vehicles
Total Cumulative Growth Volume (ADT):	7,978	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.5%
Medium Truck	1.8%	0.5%	1.8%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Creston Road south of Niblick Road

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	65.9 dBA	#N/A	#N/A	58	124	267
Existing + Project	66.1 dBA	#N/A	#N/A	59	127	273
Future with Ambient Growth	65.9 dBA	#N/A	#N/A	58	124	267
Future with Ambient Growth and Project	66.1 dBA	#N/A	#N/A	59	127	273
Future with Ambient Growth and Cumulative Projects	68.0 dBA	#N/A	32	79	171	369
Future with Ambient, Cumulative, and Project Growth	68.1 dBA	#N/A	32	80	173	373

Change in Noise Levels	
Due to Project	0.1 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	2.1 dBA
Due to All Future Growth	2.2 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	66.4 dBA	#N/A	#N/A	62	134	289
Existing + Project	66.6 dBA	#N/A	#N/A	64	137	296
Future with Ambient Growth	66.4 dBA	#N/A	#N/A	62	134	289
Future with Ambient Growth and Project	66.6 dBA	#N/A	#N/A	64	137	296
Future with Ambient Growth and Cumulative Projects	68.5 dBA	#N/A	36	86	185	399
Future with Ambient, Cumulative, and Project Growth	68.6 dBA	#N/A	36	87	188	404

Change in Noise Levels	
Due to Project	0.1 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	2.1 dBA
Due to All Future Growth	2.2 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Creston Road west of Rolling Hills

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	13,200	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2004	
Total Project Volume (ADT):	1,525	vehicles
Total Cumulative Growth Volume (ADT):	4,975	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Creston Road west of Rolling Hills

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	66.0 dBA	#N/A	#N/A	59	126	272
Existing + Project	66.5 dBA	#N/A	#N/A	63	135	291
Future with Ambient Growth	66.0 dBA	#N/A	#N/A	59	126	272
Future with Ambient Growth and Project	66.5 dBA	#N/A	#N/A	63	135	291
Future with Ambient Growth and Cumulative Projects	67.4 dBA	#N/A	28	72	156	336
Future with Ambient, Cumulative, and Project Growth	67.7 dBA	#N/A	30	76	164	353

Change in Noise Levels	
Due to Project	0.4 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	1.4 dBA
Due to All Future Growth	1.7 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	66.5 dBA	#N/A	#N/A	63	137	294
Existing + Project	67.0 dBA	#N/A	#N/A	68	146	315
Future with Ambient Growth	66.5 dBA	#N/A	#N/A	63	137	294
Future with Ambient Growth and Project	67.0 dBA	#N/A	#N/A	68	146	315
Future with Ambient Growth and Cumulative Projects	67.9 dBA	#N/A	31	78	169	364
Future with Ambient, Cumulative, and Project Growth	68.3 dBA	#N/A	33	82	177	382

Change in Noise Levels	
Due to Project	0.4 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	1.4 dBA
Due to All Future Growth	1.7 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	12-Nov-05		

Roadway: Golden Hill Road south of S.R. 46

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	7,510	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2004	
Total Project Volume (ADT):	1,363	vehicles
Total Cumulative Growth Volume (ADT):	8,227	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 12-Nov-05

Roadway: Golden Hill Road south of S.R. 46

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	66.7 dBA	#N/A	#N/A	65	139	300
Existing + Project	67.4 dBA	#N/A	27	72	155	333
Future with Ambient Growth	66.7 dBA	#N/A	#N/A	65	139	300
Future with Ambient Growth and Project	67.4 dBA	#N/A	27	72	155	333
Future with Ambient Growth and Cumulative Projects	69.9 dBA	#N/A	49	106	228	491
Future with Ambient, Cumulative, and Project Growth	70.2 dBA	#N/A	52	111	240	517
Change in Noise Levels						
Due to Project	0.7 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	3.2 dBA					
Due to All Future Growth	3.5 dBA					

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	67.2 dBA	#N/A	26	70	151	326
Existing + Project	67.9 dBA	#N/A	31	78	168	362
Future with Ambient Growth	67.2 dBA	#N/A	26	70	151	326
Future with Ambient Growth and Project	67.9 dBA	#N/A	31	78	168	362
Future with Ambient Growth and Cumulative Projects	70.4 dBA	#N/A	53	115	247	533
Future with Ambient, Cumulative, and Project Growth	70.8 dBA	#N/A	56	121	261	562
Change in Noise Levels						
Due to Project	0.7 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	3.2 dBA					
Due to All Future Growth	3.5 dBA					

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	12-Nov-05		

Roadway: Golden Hill Road south of Union

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	9,990	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2004	
Total Project Volume (ADT):	1,841	vehicles
Total Cumulative Growth Volume (ADT):	9,769	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 12-Nov-05

Roadway: Golden Hill Road south of Union

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	67.9 dBA	#N/A	31	78	169	363
Existing + Project	68.6 dBA	#N/A	36	87	187	404
Future with Ambient Growth	67.9 dBA	#N/A	31	78	169	363
Future with Ambient Growth and Project	68.6 dBA	#N/A	36	87	187	404
Future with Ambient Growth and Cumulative Projects	70.9 dBA	#N/A	57	123	265	571
Future with Ambient, Cumulative, and Project Growth	71.2 dBA	#N/A	60	130	280	604
Change in Noise Levels						
Due to Project	0.7 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	2.9 dBA					
Due to All Future Growth	3.3 dBA					

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	68.5 dBA	#N/A	35	85	183	394
Existing + Project	69.1 dBA	#N/A	41	94	204	439
Future with Ambient Growth	68.5 dBA	#N/A	35	85	183	394
Future with Ambient Growth and Project	69.1 dBA	#N/A	41	94	204	439
Future with Ambient Growth and Cumulative Projects	71.4 dBA	#N/A	62	134	288	620
Future with Ambient, Cumulative, and Project Growth	71.8 dBA	#N/A	66	141	305	656
Change in Noise Levels						
Due to Project	0.7 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	3.0 dBA					
Due to All Future Growth	3.3 dBA					

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Linne Road east of Airport Road

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	1,190	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	2,864	vehicles
Total Cumulative Growth Volume (ADT):	846	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	98.4%
Medium Truck	1.8%	0.5%	1.0%
Heavy Truck	0.7%	0.5%	0.6%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Linne Road east of Airport Road

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	55.6 dBA	#N/A	#N/A	#N/A	#N/A	55
Existing + Project	60.6 dBA	#N/A	#N/A	#N/A	55	118
Future with Ambient Growth	55.6 dBA	#N/A	#N/A	#N/A	#N/A	55
Future with Ambient Growth and Project	60.6 dBA	#N/A	#N/A	#N/A	55	118
Future with Ambient Growth and Cumulative Projects	57.8 dBA	#N/A	#N/A	#N/A	30	77
Future with Ambient, Cumulative, and Project Growth	61.4 dBA	#N/A	#N/A	#N/A	62	134

Change in Noise Levels	
Due to Project	5.0 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	2.2 dBA
Due to All Future Growth	5.9 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	56.1 dBA	#N/A	#N/A	#N/A	#N/A	59
Existing + Project	61.1 dBA	#N/A	#N/A	#N/A	60	128
Future with Ambient Growth	56.1 dBA	#N/A	#N/A	#N/A	#N/A	59
Future with Ambient Growth and Project	61.1 dBA	#N/A	#N/A	#N/A	60	128
Future with Ambient Growth and Cumulative Projects	58.3 dBA	#N/A	#N/A	#N/A	34	83
Future with Ambient, Cumulative, and Project Growth	62.0 dBA	#N/A	#N/A	#N/A	68	146

Change in Noise Levels	
Due to Project	5.0 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	2.2 dBA
Due to All Future Growth	5.9 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	12-Nov-05		

Roadway: Sherwood Road east of Creston Road

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	11,920	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	5,721	vehicles
Total Cumulative Growth Volume (ADT):	7,059	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.8%
Medium Truck	1.8%	0.5%	1.5%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 12-Nov-05

Roadway: Sherwood Road east of Creston Road

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	68.7 dBA	#N/A	37	88	190	408
Existing + Project	70.3 dBA	#N/A	52	113	243	523
Future with Ambient Growth	68.7 dBA	#N/A	37	88	190	408
Future with Ambient Growth and Project	70.3 dBA	#N/A	52	113	243	523
Future with Ambient Growth and Cumulative Projects	70.7 dBA	#N/A	55	120	257	555
Future with Ambient, Cumulative, and Project Growth	71.8 dBA	#N/A	65	141	304	655
Change in Noise Levels						
Due to Project	1.6 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	2.0 dBA					
Due to All Future Growth	3.1 dBA					

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	69.2 dBA	#N/A	42	96	206	444
Existing + Project	70.8 dBA	#N/A	57	122	264	568
Future with Ambient Growth	69.2 dBA	#N/A	42	96	206	444
Future with Ambient Growth and Project	70.8 dBA	#N/A	57	122	264	568
Future with Ambient Growth and Cumulative Projects	71.2 dBA	#N/A	60	130	280	603
Future with Ambient, Cumulative, and Project Growth	72.3 dBA	27	71	153	331	712
Change in Noise Levels						
Due to Project	1.6 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	2.0 dBA					
Due to All Future Growth	3.1 dBA					

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	12-Nov-05		

Roadway: Niblick Road east of US 101

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):	TNM
Distance to Receptor:	50 feet
Site Condition (Hard or Soft):	Hard
Upgrade longer than 1 mile:	0 %
Existing Total Traffic Volume (ADT):	26,410 vehicles
Ambient Growth Factor:	0.0%
Future Year :	2010
Total Project Volume (ADT):	4,477 vehicles
Total Cumulative Growth Volume (ADT):	4,613 vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.7%
Medium Truck	1.8%	0.5%	1.6%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 12-Nov-05

Roadway: Niblick Road east of US 101

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	69.0 dBA	#N/A	40	93	200	432
Existing + Project	69.7 dBA	#N/A	46	102	220	475
Future with Ambient Growth	69.0 dBA	#N/A	40	93	200	432
Future with Ambient Growth and Project	69.7 dBA	#N/A	46	102	220	475
Future with Ambient Growth and Cumulative Projects	69.7 dBA	#N/A	47	103	223	480
Future with Ambient, Cumulative, and Project Growth	70.3 dBA	#N/A	52	112	242	521
Change in Noise Levels						
Due to Project	0.6 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	0.7 dBA					
Due to All Future Growth	1.2 dBA					

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	69.6 dBA	#N/A	45	101	217	467
Existing + Project	70.2 dBA	#N/A	51	111	239	514
Future with Ambient Growth	69.6 dBA	#N/A	45	101	217	467
Future with Ambient Growth and Project	70.2 dBA	#N/A	51	111	239	514
Future with Ambient Growth and Cumulative Projects	70.3 dBA	#N/A	52	112	241	520
Future with Ambient, Cumulative, and Project Growth	70.8 dBA	#N/A	56	122	262	565
Change in Noise Levels						
Due to Project	0.6 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	0.7 dBA					
Due to All Future Growth	1.2 dBA					

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: River Road north of Niblick Road

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	7,990	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	321	vehicles
Total Cumulative Growth Volume (ADT):	2,789	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.5%
Medium Truck	1.8%	0.5%	1.8%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: River Road north of Niblick Road

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	63.9 dBA	#N/A	#N/A	38	90	195
Existing + Project	64.0 dBA	#N/A	#N/A	40	92	199
Future with Ambient Growth	63.9 dBA	#N/A	#N/A	38	90	195
Future with Ambient Growth and Project	64.0 dBA	#N/A	#N/A	40	92	199
Future with Ambient Growth and Cumulative Projects	65.1 dBA	#N/A	#N/A	51	110	237
Future with Ambient, Cumulative, and Project Growth	65.3 dBA	#N/A	#N/A	52	112	242

Change in Noise Levels	
Due to Project	0.2 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	1.3 dBA
Due to All Future Growth	1.4 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	64.4 dBA	#N/A	#N/A	43	98	211
Existing + Project	64.5 dBA	#N/A	#N/A	45	100	216
Future with Ambient Growth	64.4 dBA	#N/A	#N/A	43	98	211
Future with Ambient Growth and Project	64.5 dBA	#N/A	#N/A	45	100	216
Future with Ambient Growth and Cumulative Projects	65.7 dBA	#N/A	#N/A	55	119	257
Future with Ambient, Cumulative, and Project Growth	65.8 dBA	#N/A	#N/A	56	121	262

Change in Noise Levels	
Due to Project	0.2 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	1.3 dBA
Due to All Future Growth	1.4 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: River Road south of S.R. 46

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	2,740	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	126	vehicles
Total Cumulative Growth Volume (ADT):	1,734	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.5%
Medium Truck	1.8%	0.5%	1.8%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: River Road south of S.R. 46

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	59.2 dBA	#N/A	#N/A	#N/A	42	95
Existing + Project	59.4 dBA	#N/A	#N/A	#N/A	43	98
Future with Ambient Growth	59.2 dBA	#N/A	#N/A	#N/A	42	95
Future with Ambient Growth and Project	59.4 dBA	#N/A	#N/A	#N/A	43	98
Future with Ambient Growth and Cumulative Projects	61.3 dBA	#N/A	#N/A	#N/A	61	132
Future with Ambient, Cumulative, and Project Growth	61.4 dBA	#N/A	#N/A	#N/A	62	134

Change In Noise Levels	
Due to Project	0.2 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	2.1 dBA
Due to All Future Growth	2.2 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	59.7 dBA	#N/A	#N/A	#N/A	47	103
Existing + Project	59.9 dBA	#N/A	#N/A	#N/A	49	106
Future with Ambient Growth	59.7 dBA	#N/A	#N/A	#N/A	47	103
Future with Ambient Growth and Project	59.9 dBA	#N/A	#N/A	#N/A	49	106
Future with Ambient Growth and Cumulative Projects	61.8 dBA	#N/A	#N/A	#N/A	66	143
Future with Ambient, Cumulative, and Project Growth	62.0 dBA	#N/A	#N/A	#N/A	68	145

Change In Noise Levels	
Due to Project	0.2 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	2.1 dBA
Due to All Future Growth	2.2 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	12-Nov-05		

Roadway: S.R. 46 East east of U.S. 101

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):	TNM
Distance to Receptor:	50 feet
Site Condition (Hard or Soft):	Hard
Upgrade longer than 1 mile:	0 %
Existing Total Traffic Volume (ADT):	23,000 vehicles
Ambient Growth Factor:	0.0%
Future Year :	2010
Total Project Volume (ADT):	4,098 vehicles
Total Cumulative Growth Volume (ADT):	20,602 vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	55	55	55
Medium Truck	55	55	55
Heavy Truck	55	55	55

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	55	55	55
Medium Truck	55	55	55
Heavy Truck	55	55	55

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 12-Nov-05

Roadway: S.R. 46 East east of U.S. 101

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	74.1 dBA	41	94	203	438	944
Existing + Project	74.8 dBA	48	105	226	486	1047
Future with Ambient Growth	74.1 dBA	41	94	203	438	944
Future with Ambient Growth and Project	74.8 dBA	48	105	226	486	1047
Future with Ambient Growth and Cumulative Projects	76.9 dBA	67	144	311	670	1444
Future with Ambient, Cumulative, and Project Growth	77.3 dBA	71	153	329	709	1528
Change in Noise Levels						
Due to Project	0.7 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	2.8 dBA					
Due to All Future Growth	3.1 dBA					

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	74.7 dBA	47	103	221	477	1027
Existing + Project	75.4 dBA	53	114	246	529	1140
Future with Ambient Growth	74.7 dBA	47	103	221	477	1027
Future with Ambient Growth and Project	75.4 dBA	53	114	246	529	1140
Future with Ambient Growth and Cumulative Projects	77.5 dBA	73	157	339	729	1571
Future with Ambient, Cumulative, and Project Growth	77.8 dBA	77	166	358	772	1664
Change in Noise Levels						
Due to Project	0.7 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	2.8 dBA					
Due to All Future Growth	3.1 dBA					

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54000
Date:	9-Nov-05		

Roadway: S.R. 46 East west of Airport Road

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	17,500	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2004	
Total Project Volume (ADT):	4,048	vehicles
Total Cumulative Growth Volume (ADT):	23,152	vehicles

Source of Traffic Data: Omni-means, Ltd. 2004.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	55	55	55
Medium Truck	55	55	55
Heavy Truck	55	55	55

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	55	55	55
Medium Truck	55	55	55
Heavy Truck	55	55	55

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54000
Date: 9-Nov-05

Roadway: S.R. 46 East west of Airport Road

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	73.0 dBA	31	79	169	365	787
Existing + Project	73.8 dBA	38	90	193	417	898
Future with Ambient Growth	73.0 dBA	31	79	169	365	787
Future with Ambient Growth and Project	73.8 dBA	38	90	193	417	898
Future with Ambient Growth and Cumulative Projects	76.6 dBA	64	138	297	639	1377
Future with Ambient, Cumulative, and Project Growth	77.0 dBA	68	146	315	679	1463

Change in Noise Levels	
Due to Project	0.9 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	3.6 dBA
Due to All Future Growth	4.0 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	73.5 dBA	35	86	184	397	856
Existing + Project	74.4 dBA	43	98	211	454	977
Future with Ambient Growth	73.5 dBA	35	86	184	397	856
Future with Ambient Growth and Project	74.4 dBA	43	98	211	454	977
Future with Ambient Growth and Cumulative Projects	77.2 dBA	70	150	323	696	1499
Future with Ambient, Cumulative, and Project Growth	77.5 dBA	74	159	343	739	1592

Change in Noise Levels	
Due to Project	0.9 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	3.6 dBA
Due to All Future Growth	4.0 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: S.R. 46 West west of US 101

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	5,500	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	332	vehicles
Total Cumulative Growth Volume (ADT):	1,668	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	55	55	55
Medium Truck	55	55	55
Heavy Truck	55	55	55

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	55	55	55
Medium Truck	55	55	55
Heavy Truck	55	55	55

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: S.R. 46 West west of US 101

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	67.9 dBA	#N/A	31	78	169	364
Existing + Project	68.2 dBA	#N/A	33	81	175	377
Future with Ambient Growth	67.9 dBA	#N/A	31	78	169	364
Future with Ambient Growth and Project	68.2 dBA	#N/A	33	81	175	377
Future with Ambient Growth and Cumulative Projects	69.1 dBA	#N/A	40	93	201	434
Future with Ambient, Cumulative, and Project Growth	69.3 dBA	#N/A	42	96	207	446

Change in Noise Levels	
Due to Project	0.2 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	1.1 dBA
Due to All Future Growth	1.3 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	68.5 dBA	#N/A	35	85	184	396
Existing + Project	68.7 dBA	#N/A	37	88	191	411
Future with Ambient Growth	68.5 dBA	#N/A	35	85	184	396
Future with Ambient Growth and Project	68.7 dBA	#N/A	37	88	191	411
Future with Ambient Growth and Cumulative Projects	69.6 dBA	#N/A	46	102	219	472
Future with Ambient, Cumulative, and Project Growth	69.8 dBA	#N/A	48	105	225	486

Change in Noise Levels	
Due to Project	0.2 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	1.1 dBA
Due to All Future Growth	1.3 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	12-Nov-05		

Roadway: Union Rd east of Golden Hill Rd

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	10,910	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2004	
Total Project Volume (ADT):	1,364	vehicles
Total Cumulative Growth Volume (ADT):	1,426	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	45	45	45
Medium Truck	45	45	45
Heavy Truck	45	45	45

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 12-Nov-05

Roadway: Union Rd east of Golden Hill Rd

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	68.3 dBA	#N/A	34	83	179	385
Existing + Project	68.8 dBA	#N/A	38	89	192	414
Future with Ambient Growth	68.3 dBA	#N/A	34	83	179	385
Future with Ambient Growth and Project	68.8 dBA	#N/A	38	89	192	414
Future with Ambient Growth and Cumulative Projects	68.8 dBA	#N/A	38	90	194	418
Future with Ambient, Cumulative, and Project Growth	69.3 dBA	#N/A	42	96	207	446
Change in Noise Levels						
Due to Project	0.5 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	0.5 dBA					
Due to All Future Growth	1.0 dBA					

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	68.8 dBA	#N/A	38	90	194	418
Existing + Project	69.3 dBA	#N/A	43	97	209	450
Future with Ambient Growth	68.8 dBA	#N/A	38	90	194	418
Future with Ambient Growth and Project	69.3 dBA	#N/A	43	97	209	450
Future with Ambient Growth and Cumulative Projects	69.4 dBA	#N/A	43	98	211	454
Future with Ambient, Cumulative, and Project Growth	69.8 dBA	#N/A	48	104	225	485
Change in Noise Levels						
Due to Project	0.5 dBA					
Due to Ambient Growth	0.0 dBA					
Due to Ambient and Cumulative	0.5 dBA					
Due to All Future Growth	1.0 dBA					

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Union Road east of River Road

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	6,500	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	688	vehicles
Total Cumulative Growth Volume (ADT):	1,212	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Union Road east of River Road

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	63.0 dBA	#N/A	#N/A	31	79	170
Existing + Project	63.4 dBA	#N/A	#N/A	34	84	180
Future with Ambient Growth	63.0 dBA	#N/A	#N/A	31	79	170
Future with Ambient Growth and Project	63.4 dBA	#N/A	#N/A	34	84	180
Future with Ambient Growth and Cumulative Projects	63.7 dBA	#N/A	#N/A	37	88	190
Future with Ambient, Cumulative, and Project Growth	64.0 dBA	#N/A	#N/A	40	93	200

Change in Noise Levels	
Due to Project	0.4 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.7 dBA
Due to All Future Growth	1.1 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	63.5 dBA	#N/A	#N/A	35	85	184
Existing + Project	63.9 dBA	#N/A	#N/A	39	91	195
Future with Ambient Growth	63.5 dBA	#N/A	#N/A	35	85	184
Future with Ambient Growth and Project	63.9 dBA	#N/A	#N/A	39	91	195
Future with Ambient Growth and Cumulative Projects	64.2 dBA	#N/A	#N/A	42	95	206
Future with Ambient, Cumulative, and Project Growth	64.6 dBA	#N/A	#N/A	45	101	217

Change in Noise Levels	
Due to Project	0.4 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.7 dBA
Due to All Future Growth	1.1 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: Union Road west of Golden Hill Rd

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	4,330	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	994	vehicles
Total Cumulative Growth Volume (ADT):	1,776	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.7%
Medium Truck	1.8%	0.5%	1.6%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	35	35	35
Medium Truck	35	35	35
Heavy Truck	35	35	35

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: Union Road west of Golden Hill Rd

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	61.2 dBA	#N/A	#N/A	#N/A	60	129
Existing + Project	62.0 dBA	#N/A	#N/A	25	68	147
Future with Ambient Growth	61.2 dBA	#N/A	#N/A	#N/A	60	129
Future with Ambient Growth and Project	62.0 dBA	#N/A	#N/A	25	68	147
Future with Ambient Growth and Cumulative Projects	62.7 dBA	#N/A	#N/A	29	75	162
Future with Ambient, Cumulative, and Project Growth	63.3 dBA	#N/A	#N/A	34	83	178

Change in Noise Levels	
Due to Project	0.8 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	1.5 dBA
Due to All Future Growth	2.1 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	61.7 dBA	#N/A	#N/A	#N/A	65	140
Existing + Project	62.5 dBA	#N/A	#N/A	28	74	159
Future with Ambient Growth	61.7 dBA	#N/A	#N/A	#N/A	65	140
Future with Ambient Growth and Project	62.5 dBA	#N/A	#N/A	28	74	159
Future with Ambient Growth and Cumulative Projects	63.2 dBA	#N/A	#N/A	33	82	176
Future with Ambient, Cumulative, and Project Growth	63.8 dBA	#N/A	#N/A	38	89	193

Change in Noise Levels	
Due to Project	0.8 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	1.5 dBA
Due to All Future Growth	2.1 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: US 101 north of S.R. 46 West

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	61,000	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	5,796	vehicles
Total Cumulative Growth Volume (ADT):	11,004	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	65	65	65
Medium Truck	65	65	65
Heavy Truck	65	65	65

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	65	65	65
Medium Truck	65	65	65
Heavy Truck	65	65	65

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: US 101 north of S.R. 46 West

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	80.6 dBA	118	254	547	1179	2539
Existing + Project	81.0 dBA	125	269	580	1249	2690
Future with Ambient Growth	80.6 dBA	118	254	547	1179	2539
Future with Ambient Growth and Project	81.0 dBA	125	269	580	1249	2690
Future with Ambient Growth and Cumulative Projects	81.3 dBA	132	284	611	1316	2835
Future with Ambient, Cumulative, and Project Growth	81.6 dBA	138	298	642	1382	2978

Change in Noise Levels	
Due to Project	0.4 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.7 dBA
Due to All Future Growth	1.0 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	81.1 dBA	128	277	596	1284	2766
Existing + Project	81.5 dBA	136	293	632	1361	2931
Future with Ambient Growth	81.1 dBA	128	277	596	1284	2766
Future with Ambient Growth and Project	81.5 dBA	136	293	632	1361	2931
Future with Ambient Growth and Cumulative Projects	81.9 dBA	143	309	665	1433	3088
Future with Ambient, Cumulative, and Project Growth	82.2 dBA	151	325	699	1506	3245

Change in Noise Levels	
Due to Project	0.4 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.7 dBA
Due to All Future Growth	1.0 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable

ROADWAY TRAFFIC NOISE

Project:	Chandler Ranch Specific Plan	Project No.	03-54001
Date:	9-Nov-05		

Roadway: US 101 south of S.R. 46 West

PROJECT DATA and ASSUMPTIONS

Vehicle Reference Energy Mean Emission Levels (FHWA 1977, TNM®, or CALVENO):		TNM
Distance to Receptor:	50	feet
Site Condition (Hard or Soft):	Hard	
Upgrade longer than 1 mile:	0	%
Existing Total Traffic Volume (ADT):	51,000	vehicles
Ambient Growth Factor:	0.0%	
Future Year :	2010	
Total Project Volume (ADT):	5,464	vehicles
Total Cumulative Growth Volume (ADT):	11,236	vehicles

Source of Traffic Data: Omni-means, Ltd. 2005.

Daily Vehicle Mix

	Existing	*Project*	*Future*
Automobile	97.5%	99.0%	97.6%
Medium Truck	1.8%	0.5%	1.7%
Heavy Truck	0.7%	0.5%	0.7%

Source: Assumed given land use and road characteristics

Percentage of Daily Traffic

Existing and Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Project

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	77.5%	12.9%	9.6%
Medium Truck	84.8%	4.9%	10.3%
Heavy Truck	86.5%	2.7%	10.8%

Source: Default Assumption

Average Speed

Existing

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	65	65	65
Medium Truck	65	65	65
Heavy Truck	65	65	65

Source: Speed Limit

Future

	Day (7 am-7 pm)	*Evening (7-10 pm)*	*Night (10 pm - 7 am)*
Automobile	65	65	65
Medium Truck	65	65	65
Heavy Truck	65	65	65

Source: Speed Limit

ROADWAY TRAFFIC NOISE

Project: Chandler Ranch Specific Plan Project No. 03-54001
Date: 9-Nov-05

Roadway: US 101 south of S.R. 46 West

Vehicle Noise Emission Levels*: TNM

RESULTS

DAY-NIGHT AVERAGE LEVEL (Ldn)	Ldn at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	79.8 dBA	105	225	485	1046	2253
Existing + Project	80.2 dBA	112	240	518	1116	2405
Future with Ambient Growth	79.8 dBA	105	225	485	1046	2253
Future with Ambient Growth and Project	80.2 dBA	112	240	518	1116	2405
Future with Ambient Growth and Cumulative Projects	80.7 dBA	119	257	554	1194	2572
Future with Ambient, Cumulative, and Project Growth	81.0 dBA	126	271	585	1260	2714

Change in Noise Levels	
Due to Project	0.4 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.9 dBA
Due to All Future Growth	1.2 dBA

COMMUNITY NOISE EXPOSURE LEVEL (CNEL)	CNEL at Site 50 feet from road centerline	Distance to dBA Contour Line from roadway centerline, feet 75	70	65	60	55
Existing	80.4 dBA	114	245	529	1139	2455
Existing + Project	80.8 dBA	122	262	564	1216	2620
Future with Ambient Growth	80.4 dBA	114	245	529	1139	2455
Future with Ambient Growth and Project	80.8 dBA	122	262	564	1216	2620
Future with Ambient Growth and Cumulative Projects	81.2 dBA	130	280	604	1301	2802
Future with Ambient, Cumulative, and Project Growth	81.6 dBA	137	296	637	1373	2957

Change in Noise Levels	
Due to Project	0.4 dBA
Due to Ambient Growth	0.0 dBA
Due to Ambient and Cumulative	0.9 dBA
Due to All Future Growth	1.2 dBA

*NOTES: Based on algorithms from the Federal Highway Administration "Traffic Noise Model ®", FHWA-PD-96-010, January, 1998.

#N/A = Not Applicable