

**Appendix F:
Noise**

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TABLE Existing + Approved-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Coffee Street to Central Avenue
NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5700 SPEED (MPH): 55 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.14

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	75.4	155.9	332.7

TABLE Existing + Approved-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Central Avenue to Plum Drive
NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5700 SPEED (MPH): 55 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY ---	EVENING -----	NIGHT -----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT) : 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.14

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL -----	65 CNEL -----	60 CNEL -----	55 CNEL -----
0.0	75.4	155.9	332.7

TABLE Existing + Approved-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Plum Drive to Gerard Avenue
NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5700 SPEED (MPH): 55 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES			
	DAY ---	EVENING -----	NIGHT -----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT) : 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.14

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	75.4	155.9	332.7

TABLE Existing + Approved-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Coffee Street - Gerard Avenue to Parsons Avenue
NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 470 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES		
DAY	EVENING	NIGHT
---	-----	-----
AUTOS		
75.51	12.57	9.34
M-TRUCKS		
1.56	0.09	0.19
H-TRUCKS		
0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 50.91

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing + Approved-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Coffee Street - Parsons Avenue to Campus Parkway

NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5900 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.90

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	74.8	160.7

TABLE Existing + Approved-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Coffee Street - Campus Parkway to Missions Avenue

NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2500 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----

AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.17

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	90.8

TABLE Existing + Approved-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Parsons Avenue - Gerard Avenue to Coffee Street
NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3900 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.29

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	88.6	185.4

TABLE Existing + Approved-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - West of Coffee Street
NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1400 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.35

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	93.2

TABLE Existing + Approved-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - Coffee Street to Pluim Drive
NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 810 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.97

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	64.9

TABLE Existing + Approved-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - Pluim Drive to Campus Parkway
NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1100 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34

M-TRUCKS
 1.56 0.09 0.19
 H-TRUCKS
 0.64 0.02 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	79.4

TABLE Existing + Approved-11
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
 ROADWAY SEGMENT: SR 99 - at Missions Avenue
 NOTES: Merced Gateway Project - Existing + Approved

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 44000 SPEED (MPH): 65 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	----	-----	-----
AUTOS	55.80	10.00	7.00
M-TRUCKS	2.50	0.20	1.50
H-TRUCKS	19.50	0.50	3.00

ACTIVE HALF-WIDTH (FT): 36 (DEFAULT Value)**Actual AHW = 64 FT
 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 86 FT FROM CENTERLINE (dB) = 82.48
 CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 80.04

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
531.5	1142.8	2460.6	5299.8

TABLE Existing + Approved + Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Campus Parkay - Coffee Street to Central Avenue

NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15300 SPEED (MPH): 55 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.43

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
68.4	140.2	298.4	641.1

TABLE Existing + Approved + Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Central Avenue to Pluim Drive
NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7000 SPEED (MPH): 55 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.03

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	85.4	178.3	381.2

TABLE Existing + Approved + Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Pluim Drive to Gerard Avenue
NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6700 SPEED (MPH): 55 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS			

	75.51	12.57	9.34
M-TRUCKS			
	1.56	0.09	0.19
H-TRUCKS			
	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.84

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	83.2	173.2	370.3

TABLE Existing + Approved + Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Coffee Street - Gerard Avenue to Parsons Avenue
NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 680 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS			
	75.51	12.57	9.34
M-TRUCKS			
	1.56	0.09	0.19
H-TRUCKS			
	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 52.52

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing + Approved + Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Coffee Street - Parsons Avenue to Campus Parkway
NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES			
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.87

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	63.9	137.1	295.1

TABLE Existing + Approved + Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Coffee Street - Campus Parkway to Missions Avenue
NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8200 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION	PERCENTAGES	
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.33

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	93.0	200.0

TABLE Existing + Approved + Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Parsons Avenue - Gerard Avenue to Coffee Street

NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3600 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION	PERCENTAGES	
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS			

	1.56	0.09	0.19
H-TRUCKS			
	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.94

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	84.4	175.9

TABLE Existing + Approved + Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Gerard Avenue - West of Coffee Street

NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1800 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS			
	75.51	12.57	9.34
M-TRUCKS			
	1.56	0.09	0.19
H-TRUCKS			
	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.44

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL

-----	-----	-----	-----
0.0	0.0	51.4	110.1

TABLE Existing + Approved + Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - Coffee Street to Pluim Drive
NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1600 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.93

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	101.9

TABLE Existing + Approved + Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - Pluim Drive to Campus Parkway
NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1800 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION	PERCENTAGES	
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.44

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	51.4	110.1

TABLE Existing + Approved + Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: SR 99 - at Missions Avenue

NOTES: Merced Gateway Project - Existing + Approved + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 46300 SPEED (MPH): 65 GRADE: .5

	TRAFFIC DISTRIBUTION	PERCENTAGES	
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	55.80	10.00	7.00
M-TRUCKS	2.50	0.20	1.50
H-TRUCKS			

19.50 0.50 3.00

ACTIVE HALF-WIDTH (FT): 36 (DEFAULT Value)**Actual AHW = 64 FT
SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 86 FT FROM CENTERLINE (dB) = 82.70
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 80.26

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
549.8	1182.3	2545.6	5482.9

TABLE Year 2035 No Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkay - Coffee Street to Central Avenue
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 30500 SPEED (MPH): 55 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES		
DAY	EVENING	NIGHT
---	-----	-----
AUTOS		
75.51	12.57	9.34
M-TRUCKS		
1.56	0.09	0.19
H-TRUCKS		
0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.42

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL

-----	-----	-----	-----
104.3	220.0	471.7	1015.1

TABLE Year 2035 No Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Central Avenue to Pluim Drive
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 30500 SPEED (MPH): 55 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.42

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
104.3	220.0	471.7	1015.1

TABLE Year 2035 No Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Pluim Drive to Gerard Avenue
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 23400 SPEED (MPH): 55 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.27

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
88.4	184.9	395.6	850.8

TABLE Year 2035 No Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Coffee Street - Gerard Avenue to Parsons Avenue
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1000 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS			

0.64 0.02 0.08

ACTIVE HALF-WIDTH (FT) : 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.19

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Year 2035 No Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Coffee Street - Parsons Avenue to Campus Parkway

NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12600 SPEED (MPH) : 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES		
DAY	EVENING	NIGHT
---	-----	-----
AUTOS		
75.51	12.57	9.34
M-TRUCKS		
1.56	0.09	0.19
H-TRUCKS		
0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT) : 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.20

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	57.7	123.7	266.3

TABLE Year 2035 No Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Coffee Street - Campus Parkway to Missions Avenue
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6300 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.19

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	78.1	167.8

TABLE Year 2035 No Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Parsons Avenue - Gerard Avenue to Coffee Street
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7100 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.89

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	63.7	129.4	275.0

TABLE Year 2035 No Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - West of Coffee Street
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4700 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT) : 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.61

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	97.0	208.6

TABLE Year 2035 No Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Gerard Avenue - Coffee Street to Plum Drive

NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7100 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES		
DAY	EVENING	NIGHT
---	-----	-----
AUTOS		
75.51	12.57	9.34
M-TRUCKS		
1.56	0.09	0.19
H-TRUCKS		
0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT) : 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.40

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	59.5	127.6	274.5

TABLE Year 2035 No Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - Plum Drive to Campus Parkway
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8200 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.02

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	65.4	140.4	302.2

TABLE Year 2035 No Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: SR 99 - at Missions Avenue
NOTES: Merced Gateway Project - Year 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 52700 SPEED (MPH): 65 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	55.80	10.00	7.00
M-TRUCKS	2.50	0.20	1.50
H-TRUCKS	19.50	0.50	3.00

ACTIVE HALF-WIDTH (FT): 36 (DEFAULT Value)**Actual AHW = 64 FT
SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 86 FT FROM CENTERLINE (dB) = 83.26
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 80.82

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
599.1	1288.7	2775.1	5977.1

TABLE Year 2035 Plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Coffee Street to Central Avenue
NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 29100 SPEED (MPH): 55 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT) : 24

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.22

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
101.3	213.3	457.2	983.8

TABLE Year 2035 Plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Campus Parkway - Central Avenue to Plum Drive

NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 24900

SPEED (MPH) : 55

GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	

ACTIVE HALF-WIDTH (FT) : 24

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.54

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
91.9	192.6	412.2	886.7

TABLE Year 2035 Plus Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Campus Parkway - Plum Drive to Gerard Avenue
NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 24900 SPEED (MPH): 55 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.54

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
91.9	192.6	412.2	886.7

TABLE Year 2035 Plus Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Coffee Street - Gerard Avenue to Parsons Avenue
NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1100 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.61

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	52.7

TABLE Year 2035 Plus Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Coffee Street - Parsons Avenue to Campus Parkway

NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15500 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.10

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	66.1	142.0	305.7

TABLE Year 2035 Plus Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Coffee Street - Campus Parkway to Missions Avenue

NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES		
DAY	EVENING	NIGHT
---	-----	-----
AUTOS		
75.51	12.57	9.34
M-TRUCKS		
1.56	0.09	0.19
H-TRUCKS		
0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.61

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	52.7	113.0	243.2

TABLE Year 2035 Plus Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Parsons Avenue - Gerard Avenue to Coffee Street
NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3700 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.06

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	85.8	179.1

TABLE Year 2035 Plus Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - West of Coffee Street
NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5000 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT) : 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.87

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	101.1	217.4

TABLE Year 2035 Plus Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: Gerard Avenue - Coffee Street to Plum Drive
NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6900 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT) : 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.27

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	58.4	125.2	269.4

TABLE Year 2035 Plus Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016

ROADWAY SEGMENT: Gerard Avenue - Plum Drive to Campus Parkway

NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9400 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES		
DAY	EVENING	NIGHT
---	-----	-----
AUTOS		
75.51	12.57	9.34
M-TRUCKS		
1.56	0.09	0.19
H-TRUCKS		
0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	71.6	153.8	331.0

TABLE Year 2035 Plus Project-11

FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/26/2016
ROADWAY SEGMENT: SR 99 - at Missions Avenue
NOTES: Merced Gateway Project - Year 2035 Plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 55000 SPEED (MPH): 65 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	55.80	10.00	7.00
M-TRUCKS	2.50	0.20	1.50
H-TRUCKS	19.50	0.50	3.00

ACTIVE HALF-WIDTH (FT): 36 (DEFAULT Value)**Actual AHW = 64 FT
SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 86 FT FROM CENTERLINE (dB) = 83.45
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 81.01

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
616.4	1325.9	2855.2	6149.8

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