Appendix H3

Traffic Noise Model Input and Output

Appendix C

Traffic Noise Modeling Calculations - Summary

Project: **12335GSNR Forest Resiliency (Lassen Facility)**

Number	Segment Description and Location Name	From	To	Existing	Existing + Project	Δ Existing – Existing + Project
Summary of Net Changes						
1	SR-299 East of Project Site	SR-299	Bieber Lookout Rd/Susanville Rd	59.9	62.7	2.8
2	SR-299 West of Project Site	SR-89	SR-299	59.6	62.5	2.9

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

Appendix C

Traffic Noise Modeling Calculations - Summary

Project: **12335GSNR Forest Resiliency (Tuolumne Facility)**

Number	Name	Segment Description and Location From	To	Existing	Existing + Project	Δ Existing – Existing + Project
Summary of Net Changes						
1	Road CR59	SR-120/SR-108	SR-132	62.3	63.1	0.9
2	SR-120/SR-108	SR-120 /SR-108 West	Road CR59	73.3	73.5	0.2

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

Appendix C - 1

Traffic Noise Model Calculations

Project: 12335GSNR Forest Resiliency (Lassen Facility)

Noise Level Descriptor: CNEL
Site Conditions: Soft
Traffic Input: ADT
Traffic K-Factor: 10

		Segment Description and Location		Input										Output				
						Distance to Directional Centerline, (feet)[4]		Traffic Distribution Characteristics							Distance to Contour, (feet)[3]			
Number	Name	From	To	ADT	Speed (mph)	Near	Far	% Auto	% Med	% Hvy	% Day	% Eve	% Night	CNEL, (dBA)[5,6,7]	70 dBA	65 dBA	60 dBA	55 dBA
Existing Conditions																		
1	SR-299 East of Project Site	SR-299	Bieber Lookout Rd/Susanville	1,821	45	50	50	97.0%	2.0%	1.0%	80.0%	10.0%	10.0%	59.9	11	23	49	106
2	SR-299 West of Project Site	SR-89	SR-299	1,717	45	50	50	97.0%	2.0%	1.0%	80.0%	10.0%	10.0%	59.6	10	22	47	102

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

Appendix C - 2

Traffic Noise Model Calculations

Project: 12335GSNR Forest Resiliency (Lassen Facility)

Noise Level Descriptor: CNEL
Site Conditions: Soft
Traffic Input: ADT
Traffic K-Factor: 10

	Segment Description and Location			Input										Output				
						Distance to Directional Centerline, (feet)$_4$		Traffic Distribution Characteristics						CNEL,	Distance to Contour, (feet)$_3$			
Number	Name	From	To	ADT	Speed (mph)	Near	Far	% Auto	% Med	% Hvy	% Day	% Eve	% Night	(dBA)$_{5,6,7}$	70 dBA	65 dBA	60 dBA	55 dBA
Existing + Project Conditions																		
1	SR-299 East of Project Site	SR-299	Bieber Lookout Rd/Susanville	3,468	45	50	50	97.0%	2.0%	1.0%	80.0%	10.0%	10.0%	62.7	16	35	75	162
2	SR-299 West of Project Site	SR-89	SR-299	3,364	45	50	50	97.0%	2.0%	1.0%	80.0%	10.0%	10.0%	62.5	16	34	74	159

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

Appendix C - 3

Traffic Noise Model Calculations

Project: 12335GSNR Forest Resiliency (Lassen Facility)

Noise Level Descriptor: CNEL
Site Conditions: Soft
Traffic Input: ADT
Traffic K-Factor: 10

		Segment Description and Location		Input										Output				
						Distance to Directional Centerline, (feet)[4]		Traffic Distribution Characteristics							Distance to Contour, (feet)[3]			
Number	Name	From	To	ADT	Speed (mph)	Near	Far	% Auto	% Med	% Hvy	% Day	% Eve	% Night	CNEL, (dBA)[5,6,7]	70 dBA	65 dBA	60 dBA	55 dBA
Existing Conditions																		
1	Road CR59	SR-120/SR-108	SR-132	3,155	45	50	50	97.0%	2.0%	1.0%	80.0%	10.0%	10.0%	62.3	15	33	71	152
2	SR-120/SR-108	SR-120 /SR-108 West	Road CR59	13,421	65	50	50	97.0%	2.0%	1.0%	80.0%	10.0%	10.0%	73.3	83	179	386	832

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

Appendix C - 4

Traffic Noise Model Calculations

Project: 12335GSNR Forest Resiliency (Lassen Facility)

Noise Level Descriptor: CNEL
Site Conditions: Soft
Traffic Input: ADT
Traffic K-Factor: 10

		Segment Description and Location		Input										Output				
						Distance to Directional Centerline, (feet)[4]		Traffic Distribution Characteristics							Distance to Contour, (feet)[3]			
Number	Name	From	To	ADT	Speed (mph)	Near	Far	% Auto	% Med	% Hvy	% Day	% Eve	% Night	CNEL, (dBA)[5,6,7]	70 dBA	65 dBA	60 dBA	55 dBA
Existing + Project Conditions																		
1	Road CR59	SR-120/SR-108	SR-132	3,863	45	50	50	97.0%	2.0%	1.0%	80.0%	10.0%	10.0%	63.1	17	38	81	174
2	SR-120/SR-108	SR-120 /SR-108 West	Road CR59	14,129	65	50	50	97.0%	2.0%	1.0%	80.0%	10.0%	10.0%	73.5	86	185	400	861

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.