

**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

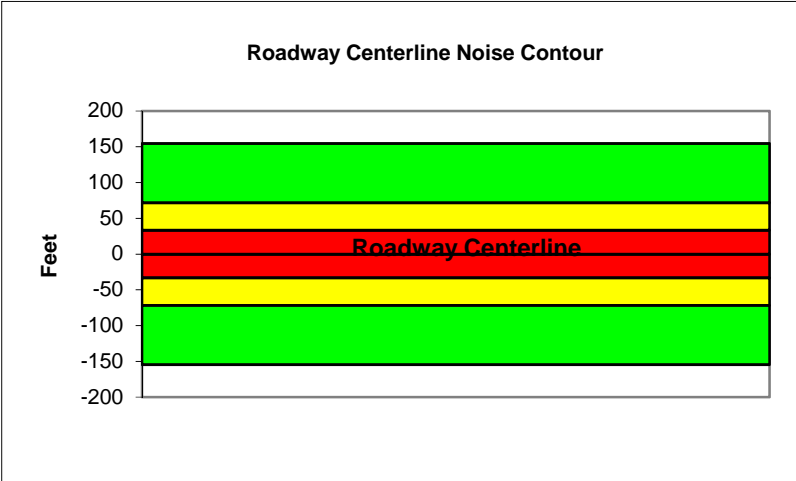
Project Name:	Skypark EIR	Scenario:	Existing
Analyst:	Ryan Chiene	Job #:	148449
Roadway:	SR-18		
Road Segment:	Kuffel Canyon Road to SR-330		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	11500			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1150			
Centerline Dist. To Observer:	100	Vehicle Speed:	45			
Barrier Near Lane CL Dist:	0	Centerline Separation:	24			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions: SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	50.8	59.6	57.8	51.7	60.4	61.0
Medium Trucks:	59.1	51.0	44.7	43.1	51.6	51.8
Heavy Trucks:	63.6	51.7	42.6	43.9	53.4	53.5
Vehicle Noise:	66.0	60.9	58.2	53.0	61.6	62.1

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	154
65 dBA	72
70 dBA	33
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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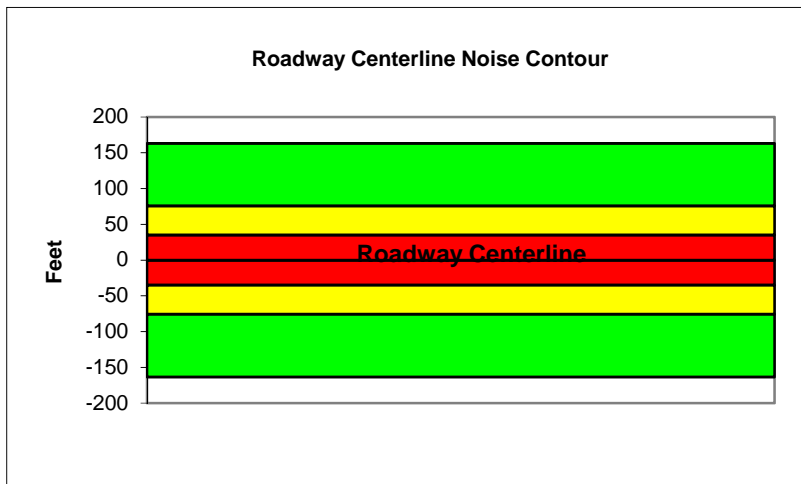
Project Name: Skypark EIR Scenario: Existing Plus Project
 Analyst: Ryan Chiene Job #: 148449
 Roadway: SR-18
 Road Segment: Kuffel Canyon Road to SR-330

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	12486			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1248.6			
Centerline Dist. To Observer:	100	Vehicle Speed:	45			
Barrier Near Lane CL Dist:	0	Centerline Separation:	24			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions: SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	51.2	60.0	58.2	52.1	60.8	61.4
Medium Trucks:	59.5	51.4	45.0	43.4	51.9	52.2
Heavy Trucks:	64.0	52.1	43.0	44.2	53.8	53.9
Vehicle Noise:	66.3	61.3	58.5	53.4	62.0	62.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	163
65 dBA	76
70 dBA	35
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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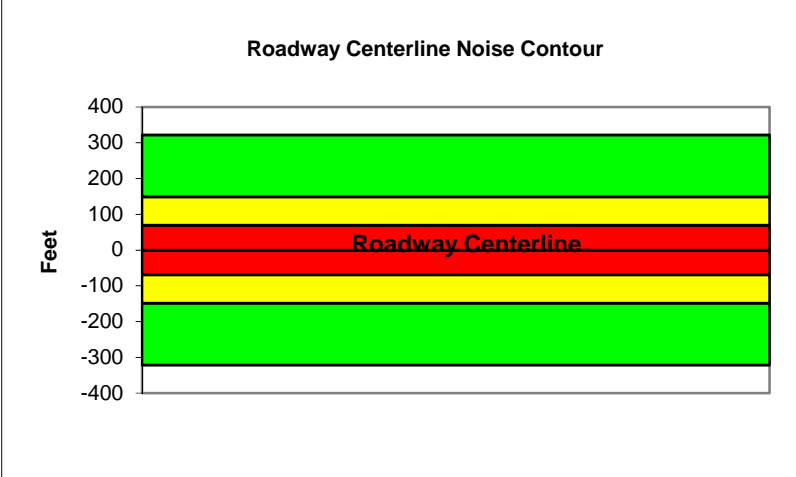
Project Name:	Skypark EIR	Scenario:	Future
Analyst:	Ryan Chiene	Job #:	148449
Roadway:	SR-18		
Road Segment:	Kuffel Canyon Road to SR-330		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	34500			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3450			
Centerline Dist. To Observer:	100	Vehicle Speed:	45			
Barrier Near Lane CL Dist:	0	Centerline Separation:	24			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions: SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	55.6	64.4	62.6	56.5	65.2	65.8
Medium Trucks:	63.9	55.8	49.4	47.9	56.3	56.6
Heavy Trucks:	68.4	56.5	47.4	48.6	58.2	58.3
Vehicle Noise:	70.7	65.7	63.0	57.8	66.4	66.9

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	321
65 dBA	149
70 dBA	69
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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Barrier Near Lane CL Dist:	0	Centerline Separation:	24			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions: SOFT SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	5.5	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	55.7	64.5	62.7	56.6	65.3	65.9
Medium Trucks:	64.0	55.9	49.6	48.0	56.5	56.7
Heavy Trucks:	68.5	56.6	47.5	48.8	58.3	58.4
Vehicle Noise:	70.9	65.8	63.1	57.9	66.5	67.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	328
65 dBA	152
70 dBA	71
Mitigated	
60 dBA	
65 dBA	
70 dBA	

