

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

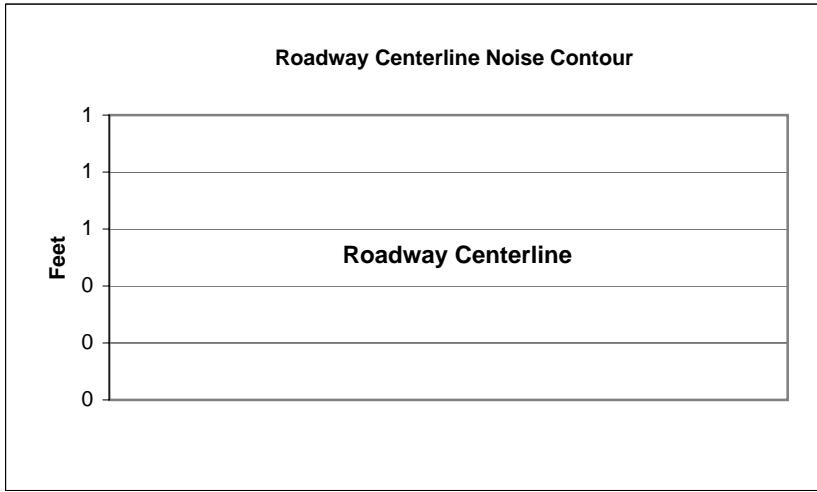
Project Name:	Mammoth Airport	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	West of 395 SB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	0			
Receiver Barrier Dist:	0	Peak Hour Traffic:	0			
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:	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Medium Trucks:	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Heavy Trucks:	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Vehicle Noise:	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

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	#NUM!
65 dBA	#NUM!
70 dBA	#NUM!
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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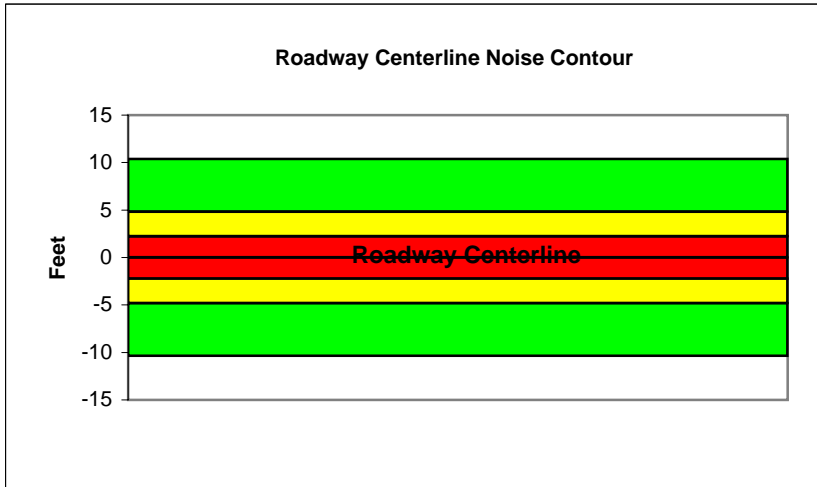
Project Name:	Mammoth Airport	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	Between 395 SB and NB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	200			
Receiver Barrier Dist:	0	Peak Hour Traffic:	20			
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:	33.2	42.0	40.2	34.1	42.8	43.4
Medium Trucks:	41.5	33.4	27.1	25.5	34.0	34.2
Heavy Trucks:	46.0	34.1	25.0	26.3	35.8	35.9
Vehicle Noise:	48.4	43.3	40.6	35.4	44.0	44.5

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	10
65 dBA	5
70 dBA	2
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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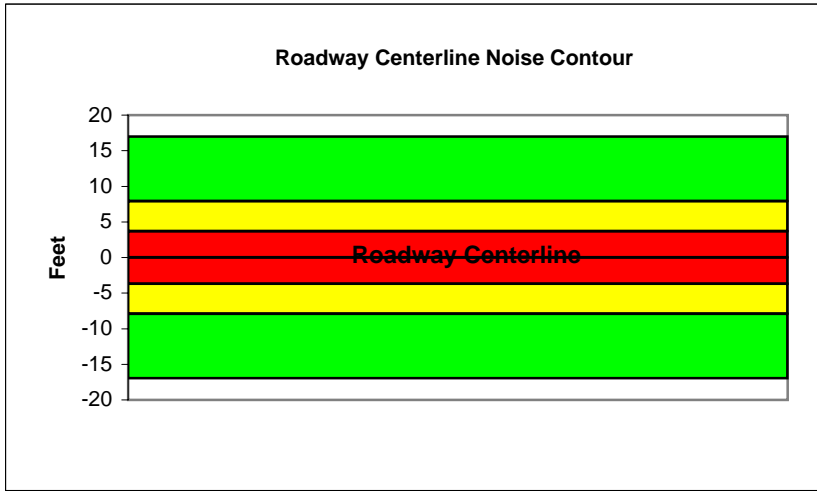
Project Name:	Mammoth Airport	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	East of 395 SB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	420			
Receiver Barrier Dist:	0	Peak Hour Traffic:	42			
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:	36.5	45.2	43.5	37.4	46.0	46.6
Medium Trucks:	44.7	36.7	30.3	28.7	37.2	37.4
Heavy Trucks:	49.3	37.3	28.3	29.5	39.0	39.2
Vehicle Noise:	51.6	46.5	43.8	38.7	47.3	47.8

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	17
65 dBA	8
70 dBA	4
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

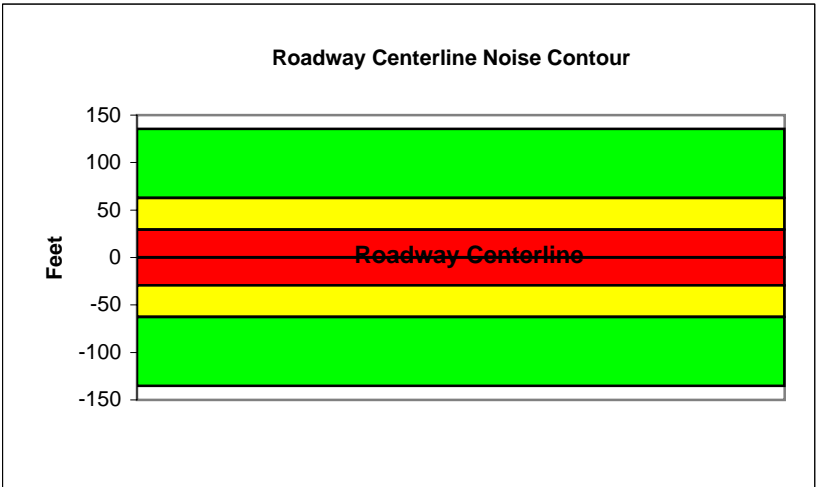
Project Name:	Mammoth Airport	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 SB		
Road Segment:	North of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	4550			
Receiver Barrier Dist:	0	Peak Hour Traffic:	455			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	49.2	57.9	56.1	50.1	58.7	59.3
Medium Trucks:	55.8	47.7	41.3	39.8	48.2	48.5
Heavy Trucks:	59.5	47.6	38.5	39.7	48.9	49.0
Vehicle Noise:	61.8	58.7	56.4	50.9	59.5	60.0

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	135
65 dBA	63
70 dBA	29
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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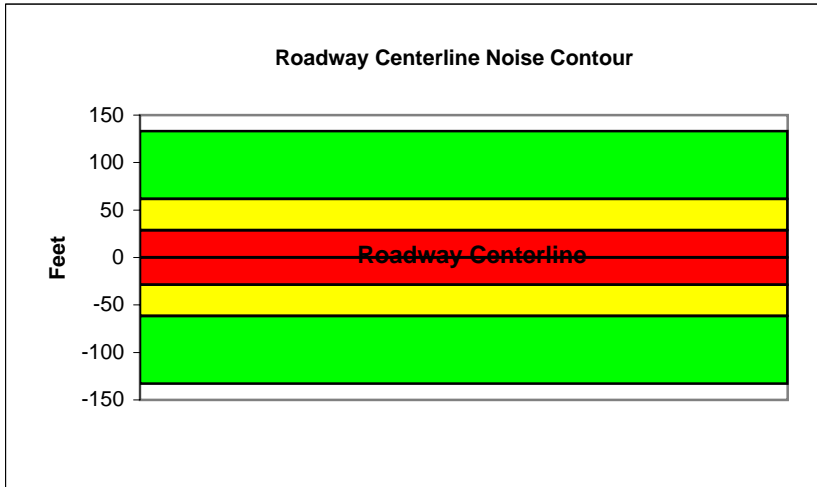
Project Name:	Mammoth Airport	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 SB		
Road Segment:	South of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	4450			
Receiver Barrier Dist:	0	Peak Hour Traffic:	445			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	49.1	57.8	56.1	50.0	58.6	59.2
Medium Trucks:	55.7	47.6	41.2	39.7	48.2	48.4
Heavy Trucks:	59.4	47.5	38.4	39.6	48.8	48.9
Vehicle Noise:	61.7	58.6	56.3	50.8	59.4	59.9

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	133
65 dBA	62
70 dBA	29
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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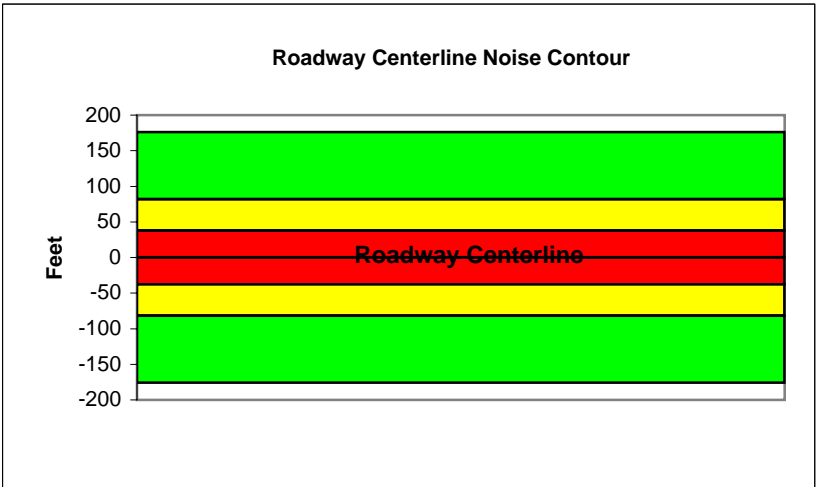
Project Name:	Mammoth Airport	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 NB		
Road Segment:	North of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	6,750			
Receiver Barrier Dist:	0	Peak Hour Traffic:	675			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	50.9	59.6	57.9	51.8	60.4	61.0
Medium Trucks:	57.5	49.4	43.0	41.5	50.0	50.2
Heavy Trucks:	61.2	49.3	40.2	41.4	50.6	50.7
Vehicle Noise:	63.5	60.5	58.1	52.6	61.2	61.7

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	176
65 dBA	82
70 dBA	38
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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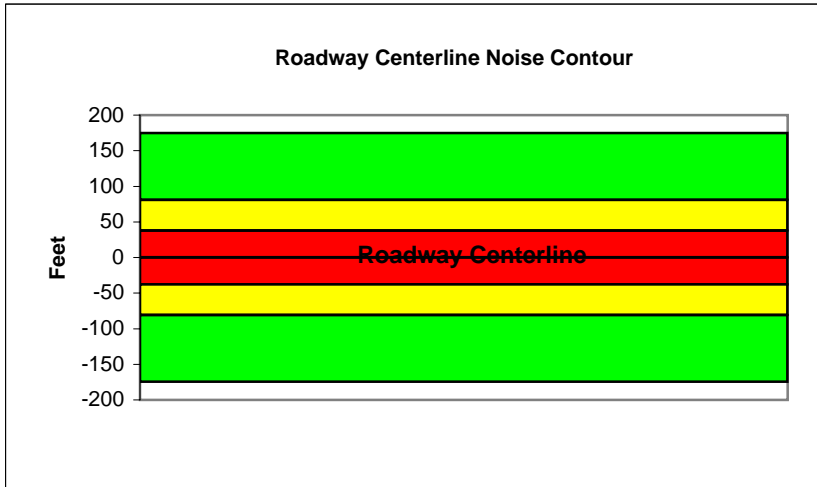
Project Name:	Mammoth Airport	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 NB		
Road Segment:	South of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	6,670			
Receiver Barrier Dist:	0	Peak Hour Traffic:	667			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	57.4	49.4	43.0	41.4	49.9	50.1
Heavy Trucks:	61.2	49.2	40.2	41.4	50.5	50.7
Vehicle Noise:	63.5	60.4	58.0	52.5	61.1	61.7

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	175
65 dBA	81
70 dBA	38
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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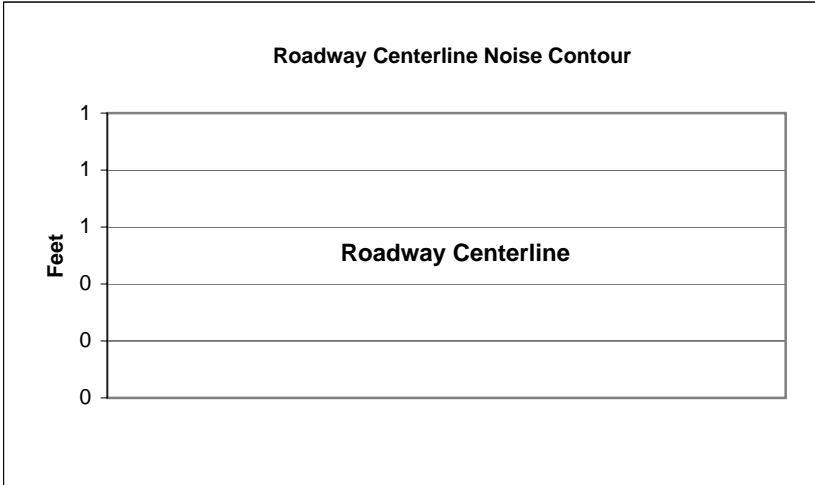
Project Name:	Mammoth Airport	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	West of 395 SB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	0			
Receiver Barrier Dist:	0	Peak Hour Traffic:	0			
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:	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Medium Trucks:	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Heavy Trucks:	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Vehicle Noise:	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

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	#NUM!
65 dBA	#NUM!
70 dBA	#NUM!
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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Traffic Noise Prediction Model (CALVENO)**

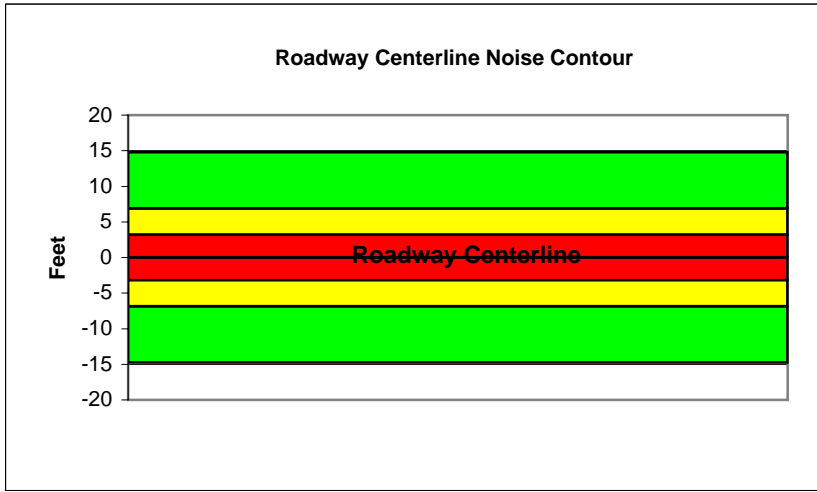
Project Name:	Mammoth Airport	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	Between 395 SB and NB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	340			
Receiver Barrier Dist:	0	Peak Hour Traffic:	34			
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:	35.5	44.3	42.5	36.5	45.1	45.7
Medium Trucks:	43.8	35.8	29.4	27.8	36.3	36.5
Heavy Trucks:	48.3	36.4	27.3	28.6	38.1	38.2
Vehicle Noise:	50.7	45.6	42.9	37.8	46.3	46.8

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	15
65 dBA	7
70 dBA	3
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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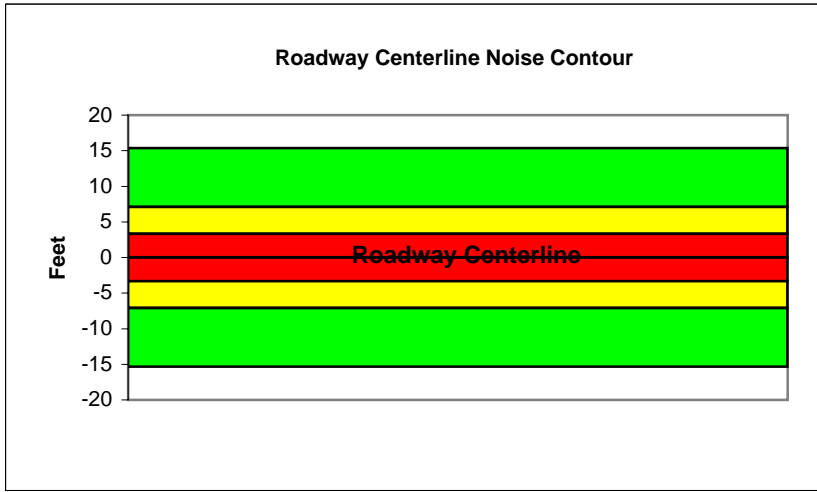
Project Name:	Mammoth Airport	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	East of 395 SB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	360			
Receiver Barrier Dist:	0	Peak Hour Traffic:	36			
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:	35.8	44.6	42.8	36.7	45.3	46.0
Medium Trucks:	44.1	36.0	29.6	28.0	36.5	36.8
Heavy Trucks:	48.6	36.7	27.6	28.8	38.4	38.5
Vehicle Noise:	50.9	45.9	43.1	38.0	46.6	47.1

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	15
65 dBA	7
70 dBA	3
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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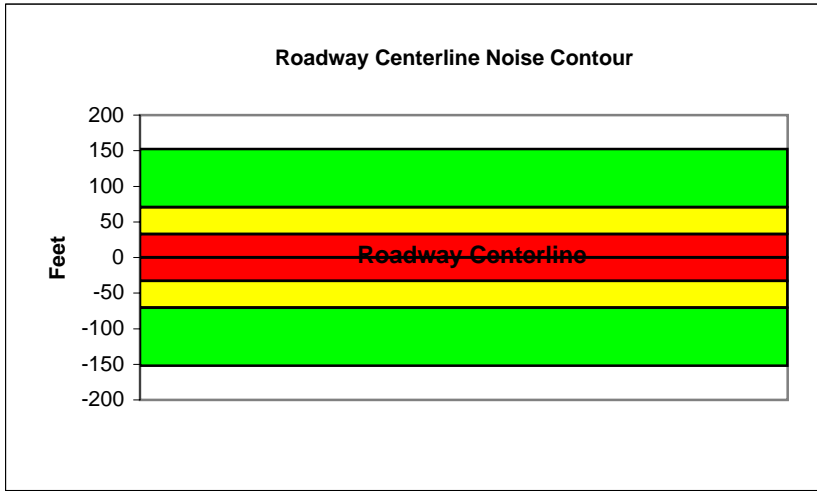
Project Name:	Mammoth Airport	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 SB		
Road Segment:	North of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	5440			
Receiver Barrier Dist:	0	Peak Hour Traffic:	544			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	49.9	58.7	56.9	50.8	59.5	60.1
Medium Trucks:	56.6	48.5	42.1	40.5	49.0	49.3
Heavy Trucks:	60.3	48.3	39.3	40.5	49.6	49.8
Vehicle Noise:	62.6	59.5	57.2	51.6	60.3	60.8

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	152
65 dBA	71
70 dBA	33
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

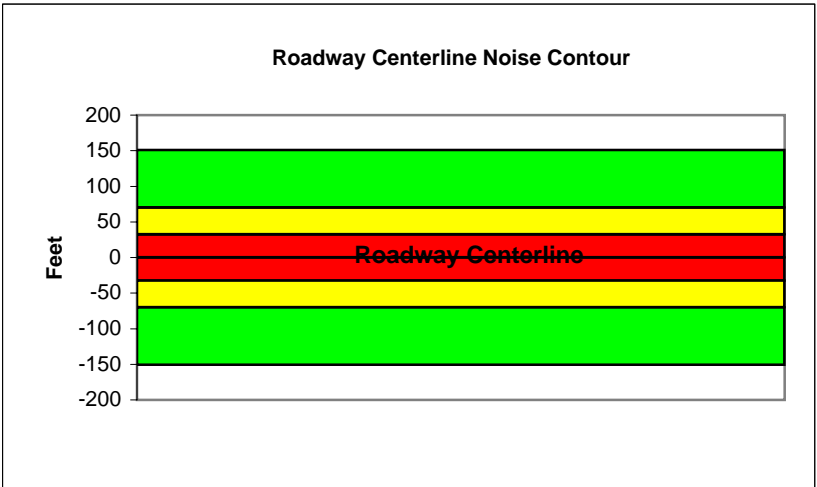
Project Name:	Mammoth Airport	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 SB		
Road Segment:	South of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	5370			
Receiver Barrier Dist:	0	Peak Hour Traffic:	537			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	49.9	58.7	56.9	50.8	59.4	60.0
Medium Trucks:	56.5	48.4	42.1	40.5	49.0	49.2
Heavy Trucks:	60.2	48.3	39.2	40.5	49.6	49.7
Vehicle Noise:	62.5	59.5	57.1	51.6	60.2	60.7

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	151
65 dBA	70
70 dBA	33
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

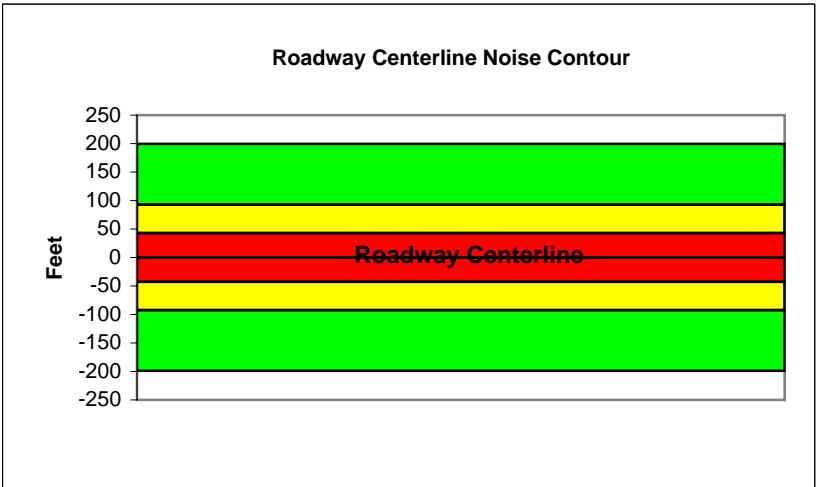
Project Name:	Mammoth Airport	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 NB		
Road Segment:	North of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	8,130			
Receiver Barrier Dist:	0	Peak Hour Traffic:	813			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	51.7	60.5	58.7	52.6	61.2	61.8
Medium Trucks:	58.3	50.2	43.9	42.3	50.8	51.0
Heavy Trucks:	62.0	50.1	41.0	42.3	51.4	51.5
Vehicle Noise:	64.3	61.3	58.9	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	199
65 dBA	92
70 dBA	43
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

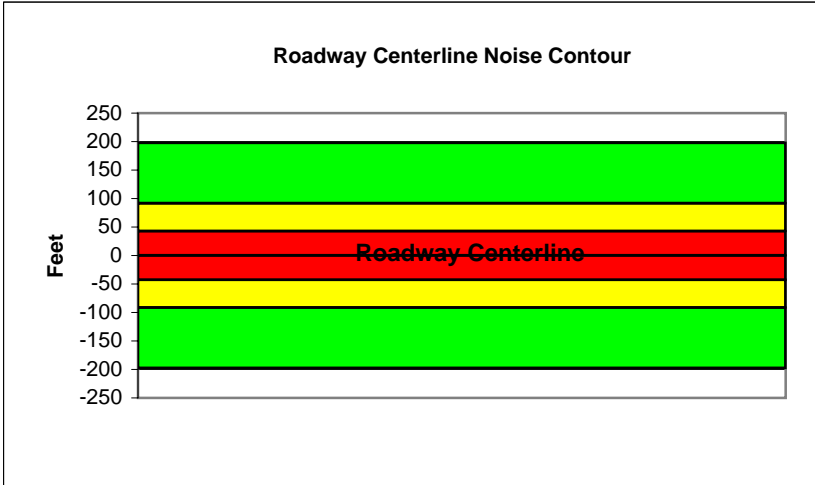
Project Name:	Mammoth Airport	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 NB		
Road Segment:	South of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	8,040			
Receiver Barrier Dist:	0	Peak Hour Traffic:	804			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	51.6	60.4	58.6	52.5	61.2	61.8
Medium Trucks:	58.3	50.2	43.8	42.2	50.7	51.0
Heavy Trucks:	62.0	50.0	41.0	42.2	51.3	51.5
Vehicle Noise:	64.3	61.2	58.8	53.3	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	198
65 dBA	92
70 dBA	43
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

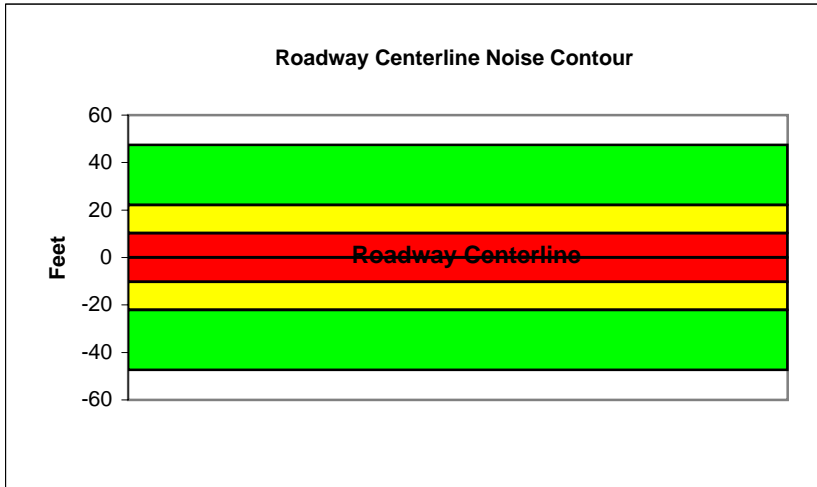
Project Name:	Mammoth Airport	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	West of 395 SB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	1960			
Receiver Barrier Dist:	0	Peak Hour Traffic:	196			
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:	43.2	51.9	50.1	44.1	52.7	53.3
Medium Trucks:	51.4	43.4	37.0	35.4	43.9	44.1
Heavy Trucks:	55.9	44.0	35.0	36.2	45.7	45.8
Vehicle Noise:	58.3	53.2	50.5	45.4	54.0	54.5

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	48
65 dBA	22
70 dBA	10
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

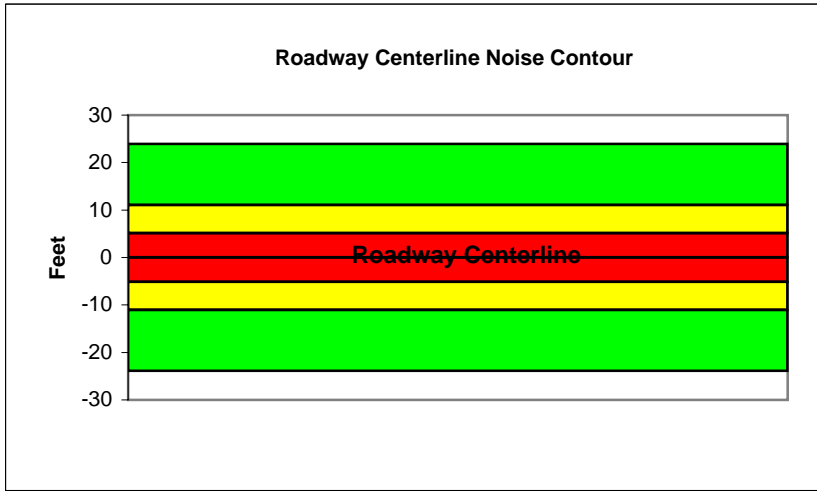
Project Name:	Mammoth Airport	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	Between 395 SB and NB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	700			
Receiver Barrier Dist:	0	Peak Hour Traffic:	70			
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:	38.7	47.5	45.7	39.6	48.2	48.8
Medium Trucks:	47.0	38.9	32.5	30.9	39.4	39.7
Heavy Trucks:	51.5	39.5	30.5	31.7	41.2	41.4
Vehicle Noise:	53.8	48.8	46.0	40.9	49.5	50.0

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	24
65 dBA	11
70 dBA	5
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

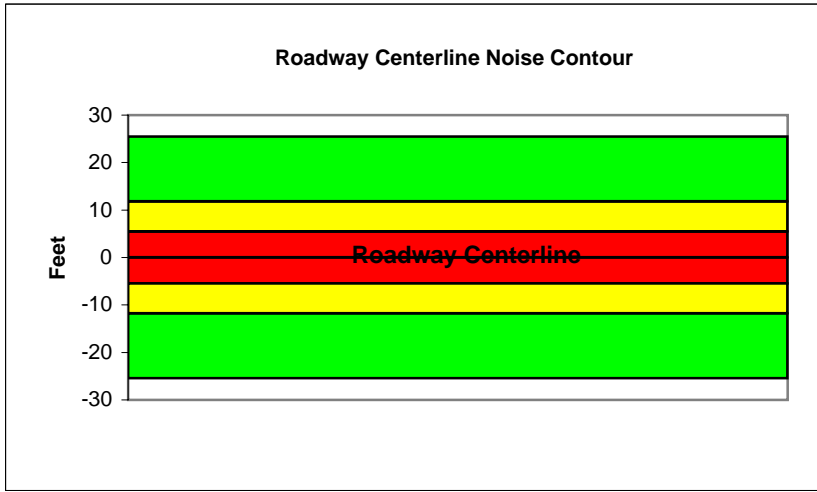
Project Name:	Mammoth Airport	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	Hot Creek Fish Hatchery Road		
Road Segment:	East of 395 SB		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	770			
Receiver Barrier Dist:	0	Peak Hour Traffic:	77			
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:	39.1	47.9	46.1	40.0	48.7	49.3
Medium Trucks:	47.4	39.3	32.9	31.3	39.8	40.1
Heavy Trucks:	51.9	40.0	30.9	32.1	41.7	41.8
Vehicle Noise:	54.2	49.2	46.5	41.3	49.9	50.4

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	25
65 dBA	12
70 dBA	5
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

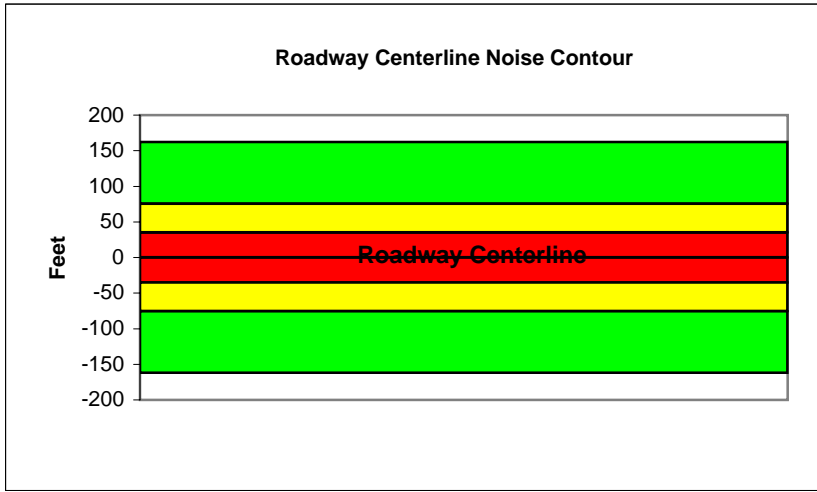
Project Name:	Mammoth Airport	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 SB		
Road Segment:	North of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	5970			
Receiver Barrier Dist:	0	Peak Hour Traffic:	597			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	50.3	59.1	57.3	51.2	59.9	60.5
Medium Trucks:	57.0	48.9	42.5	40.9	49.4	49.7
Heavy Trucks:	60.7	48.7	39.7	40.9	50.0	50.2
Vehicle Noise:	63.0	59.9	57.6	52.0	60.7	61.2

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	162
65 dBA	75
70 dBA	35
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

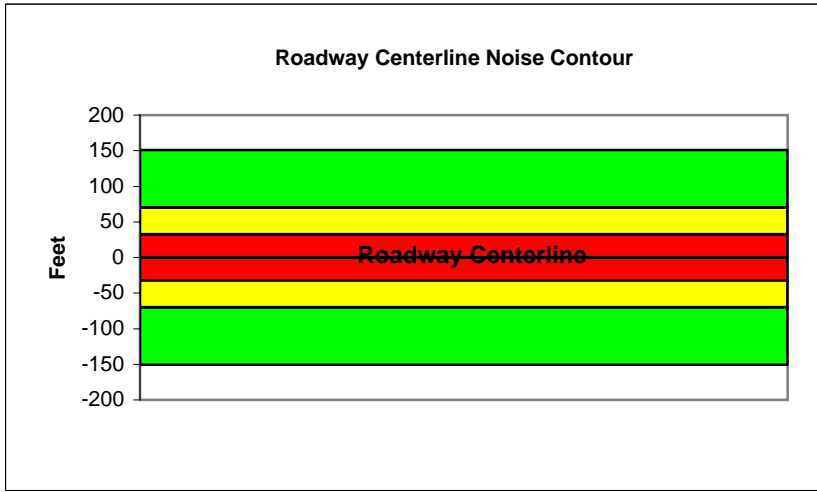
Project Name:	Mammoth Airport	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 SB		
Road Segment:	South of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	5370			
Receiver Barrier Dist:	0	Peak Hour Traffic:	537			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	49.9	58.7	56.9	50.8	59.4	60.0
Medium Trucks:	56.5	48.4	42.1	40.5	49.0	49.2
Heavy Trucks:	60.2	48.3	39.2	40.5	49.6	49.7
Vehicle Noise:	62.5	59.5	57.1	51.6	60.2	60.7

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	151
65 dBA	70
70 dBA	33
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

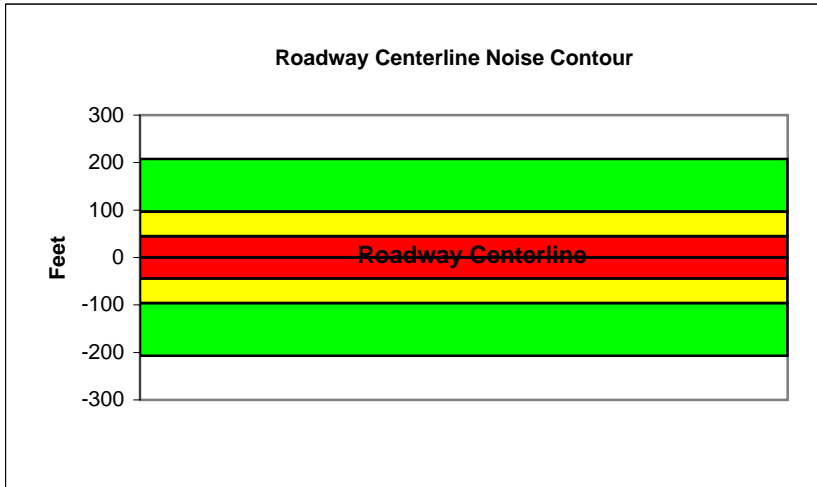
Project Name:	Mammoth Airport	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 NB		
Road Segment:	North of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	8,630			
Receiver Barrier Dist:	0	Peak Hour Traffic:	863			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	51.9	60.7	58.9	52.8	61.5	62.1
Medium Trucks:	58.6	50.5	44.1	42.5	51.0	51.3
Heavy Trucks:	62.3	50.3	41.3	42.5	51.6	51.8
Vehicle Noise:	64.6	61.5	59.2	53.6	62.3	62.8

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	207
65 dBA	96
70 dBA	45
Mitigated	
60 dBA	
65 dBA	
70 dBA	



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

Project Name:	Mammoth Airport	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	10-106064
Roadway:	395 NB		
Road Segment:	South of Hot Creek Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier:	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	8,060			
Receiver Barrier Dist:	0	Peak Hour Traffic:	806			
Centerline Dist. To Observer:	100	Vehicle Speed:	60			
Barrier Near Lane CL Dist:	0	Centerline Separation:	82			
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:	51.6	60.4	58.6	52.5	61.2	61.8
Medium Trucks:	58.3	50.2	43.8	42.2	50.7	51.0
Heavy Trucks:	62.0	50.0	41.0	42.2	51.3	51.5
Vehicle Noise:	64.3	61.2	58.9	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	198
65 dBA	92
70 dBA	43
Mitigated	
60 dBA	
65 dBA	
70 dBA	

