

Town of Mammoth Lakes TSMP Project

Noise Worksheets

Provided by PCR Services Corporation

July 2011

Appendix

- Construction Noise Calculations

Project: Mammoth Lakes Trails System Master Plan

Construction Phase: *Mass Site Grading*

Equipment

Description	No. of Equip.	Reference Noise	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax			
Dozer	1	82	40%	2345	0
Tractor/Loader/Backhoe	1	80	25%	2345	0
Other Equipment	1	85	50%	2345	0
Water Trucks	1	80	10%	2345	0

Receptor: *R7*

Results:

Hourly Leq: **51**

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Mammoth Lakes Trails System Master Plan

Construction Phase: *Fine Site Grading*

Equipment

Description	No. of Equip.	Reference Noise	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax			
Graders	1	85	40%	2345	0
Tractor/Loader/Backhoe	1	80	25%	2345	0
Other Equipment	2	85	50%	2345	0
Water Trucks	1	80	10%	2345	0

Receptor: ***R7***

Results:

Hourly Leq: **53**

Source for Ref. Noise Levels: FHWA, RCNM 2005

Project: Mammoth Lakes Trails System Master Plan

Construction Phase: *Fine Site Grading*

Equipment

Description	No. of Equip.	Reference Noise	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax			
Graders	1	85	40%	2345	0
Tractor/Loader/Backhoe	1	80	25%	2345	0
Other Equipment	2	85	50%	2345	0
Water Trucks	1	80	10%	2345	0

Receptor: ***R7***

Results:

Hourly Leq: **53**

Source for Ref. Noise Levels: FHWA, RCNM 2005

Construction Phase: *Paving*

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Paver	1	77	50%	2345	0

Results:

Hourly Leg: 41

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