

Appendix I

Noise Assumptions and Modeling

Exhibit A
Ambient Noise Data

Exhibit B
**Construction and
Vibration Noise
Calculations**

Exhibit C
**Traffic Noise
Modeling**

Exhibit D
**Operational
Noise
Modeling**

Claremont Mckenna Campus Sport Bowl at Receiver R1
Weekend Gameday Fall

Football or Track and Field Spectators + Participants							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2000						
	1000	500	3	65	92.0	2790	32.6
	1000	500	3	65	92.0	2790	32.6
Total	2000	1000	-	-	95.0	-	35.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Soccer/Rugby Spectators + Participants							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	140						
	70	35	3	65	80.4	1626	25.8
	70	35	3	65	80.4	1626	25.8
Total	140	70	-	-	83.5	-	28.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Weekend Gameday Fall			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
	2140		
	2140	1070	36.4
Total w/o Shielding	2140	1070	36.4
Reduction provided by shielding			

