

**APPENDIX 5.4-A**  
**SOUND FREQUENCY RESULTS**





**Noise Monitoring Results – Octave Band Measurements**

Freq (Hz)	Leq (dB)				
	Mulgrave Area Medical Center	Mulgrave Memorial Educational Center	Residence (#6931 Hwy 344)	Residence (#5440 Hwy 344)	Residence (#251 Hwy 344)
20000	21.6	21.6	21.6	41.6	31.6
16000	21.6	21.6	21.6	41.6	31.6
12500	21.6	21.6	21.6	41.6	31.6
10000	21.6	21.6	21.6	41.6	31.6
8000	21.6	22.2	21.6	41.6	31.6
6300	21.6	22.5	21.6	41.6	31.6
5000	21.9	25.0	29.1	41.6	31.6
4000	21.9	23.9	26.2	41.6	37.7
3150	25.5	30.0	26.5	41.6	42.4
2500	21.6	32.0	21.6	41.6	31.6
2000	21.8	21.7	24.6	41.6	34.8
1600	28.6	29.6	32.4	41.6	55.5
1250	26.5	37.8	35.9	41.6	45.3
1000	40.2	30.5	55.5	77.8	49.3
800	36.0	24.6	67.1	77.8	39.7
630	35.4	30.8	46.3	41.7	38.2
500	24.8	31.3	36.6	41.6	35.7
400	24.8	27.6	34.6	41.6	40.2
315	28.2	32.1	27.9	41.6	44.3
250	33.4	37.2	32.9	42.0	45.9
200	36.5	38.5	40.5	56.2	50.9
160	38.1	46.7	35.5	46.9	50.9
125	38.2	43.2	46.5	41.7	57.7
100	40.5	51.8	46.9	47.9	53.7
80	46.8	50.1	45.3	45.8	51.9
63	39.0	44.7	45.2	44.6	63.4
50	48.8	46.6	46.1	42.2	51.4
40	44.6	47.0	53.6	49.8	50.9
31.5	43.0	45.6	58.7	45.4	50.7
25	40.3	54.5	62.7	46.8	49.8
20	43.4	45.0	70.2	60.0	51.6
16	46.4	45.2	74.1	60.2	51.7
12.5	49.0	47.1	68.6	53.6	51.6

