APPENDIX
ACOUSTICAL TERMINOLOGY

AMBIENT NOISE LEVEL: The composite of noise from all sources near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location.

CNEL: Community Noise Equivalent Level. The average equivalent sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night before 7:00 a.m. and after 10:00 p.m.

DECIBEL, dB: A unit for describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the reference pressure, which is 20 micropascals (20 micronewtons per square meter).

$L_{dn}$: Day-Night Average Sound Level. The average equivalent sound level during a 24-hour day, obtained after addition of ten decibels to sound levels in the night after 10:00 p.m. and before 7:00 a.m.

$L_{eq}$: Equivalent Sound Level. The sound level containing the same total energy as a time varying signal over a given sample period. $L_{eq}$ is typically computed over 1, 8 and 24-hour sample periods.

Note: $L_{dn}$ represents the daily level of noise exposure averaged on an annual basis, while $L_{eq}$ represents the average noise exposure for a shorter time period, typically one hour.

$L_{max}$: The maximum sound level recorded during a noise event.

$L_u$: The sound level exceeded "n" percent of the time during a sample interval. $L_{10}$ equals the level exceeded 10 percent of the time ($L_{90}$, $L_{50}$, etc.)
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NOISE EXPOSURE CONTOURS: Lines drawn about a noise source indicating constant levels of noise exposure. $L_{dn}$ contours are frequently utilized to describe community exposure to noise.

SEL OR SENEL: Sound Exposure Level or Single Event Noise Exposure Level. The level of noise accumulated during a single noise event, such as an aircraft overflight, with reference to a duration of one second. More specifically, it is the time-integrated A-weighted squared sound pressure level for a stated time interval or event, based on a reference pressure of 20 micropascals and a reference duration of one second.

SOUND LEVEL: The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear and gives good correlation with subjective reactions to noise.
Hourly Measured Noise Level
Corner of Broadview & Hill - Site 4
August 15, 1998

Sound Level, dB

Hour of Day

Lmax
Leq
L90
Hourly Measured Noise Level

312 Marshall - Site 5
August 15, 1998
Hourly Measured Noise Level

888 Freeman - Site 6
August 13 & 14, 1998

Sound Level, dB

Hour of Day

- Lmax  - Leq  - L90
Hourly Measured Noise Level

888 Freeman - Site 6

August 15, 1998

Sound Level, dB

12:00 AM  4:00 AM  8:00 AM  12:00 PM  4:00 PM  8:00 PM

Hour of Day

- Lmax  - Leq  - L90