NOISE LEVELS ASSESSMENT REPORT
LBJ Medical Dedman Site
Farmers Branch, Texas

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NOISE LEVELS ASSESSMENT

LBJ Medical Deadman Site

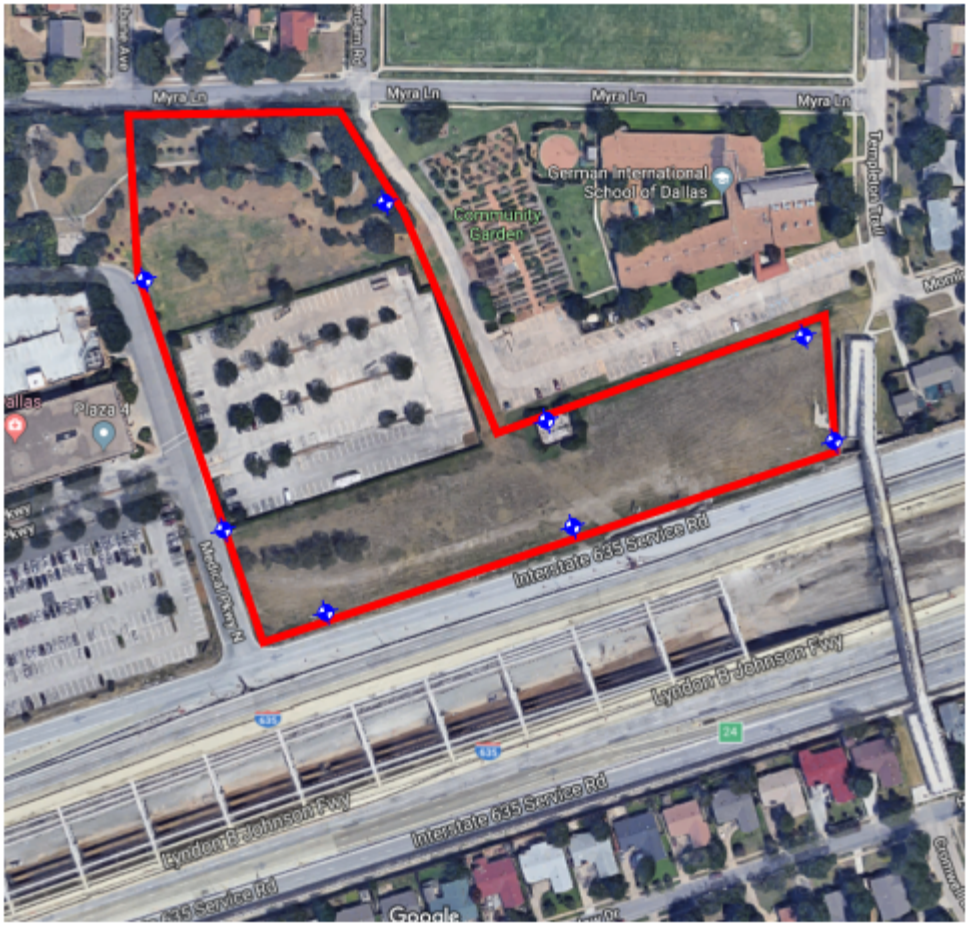
Farmers Branch, Texas

Summary:

This report constitutes an assessment/study of noise levels perceived at the subject site as result of proximity to noise generating factors/parameters from the adjoining and or neighboring facilities. The study was to assess noise impact on a proposed multi-family residential development project on the subject site

The property consists of a vacant tract of land totaling approximately 7.88 acres located near the intersection of Medical Parkway North Street with the west bound service road of Interstate Highway 635 in the City of Farmers Branch, Dallas County, Texas.

One target area was identified for noise impact study/assessment with reference to the subject Site. Noise impact generated from the automobile traffic on Interstate Highway 635 adjoining the subject site, north of Interstate Highway 635.



Location of sound receptors

HUD Acceptable levels:

Acceptable noise levels near residential areas are shown in the table below (Donovan, 2012; "Environmental Criteria and Standards, Noise Abatement Control," 1979),

Site Acceptability Standards

	Day-night average sound level (in decibels)	Special approvals and requirements
Acceptable	Not exceeding 65 dB(1)	None
Normally Unacceptable	Above 65 dB but not exceeding 75 dB.	Special Approvals (2) Environmental Review (3) Attenuation (4)
Unacceptable	Above 75 dB	Special Approvals (2) Environmental Review (3) Attenuation (5)

Notes:

1. Acceptable threshold may be shifted to 70 dB in special circumstances pursuant to Sec. 51.105(a).
2. See Sec. 51.104 (b) for requirements.
3. See Sec. 51.104 (b) for requirements.
4. 5 dB additional attenuation required for sites above 65 dB but not exceeding 70 dB and 10 dB additional attenuation required for sites above 70 dB but not exceeding 75 dB. (See Sec. 51.104 (a).)
5. Attenuation measures to be submitted to the Assistant Secretary for CPD for approval on a case-by-case basis.

Noise levels exceeding 75 decibels require special approvals and environmental reviews.

Category 1: This category includes buildings and parks where quiet is an essential element in their intended purpose. Land uses include open space set aside for serenity and quiet (e.g., wilderness areas) and areas for outdoor concert pavilions.

Category 2: This category includes residences and buildings where people normally sleep. Land uses include homes, hospitals, nursing homes, and hotels where nighttime sensitivity to noise is assumed to be of utmost importance.

Category 3: This category includes institutional land uses with primary daytime and evening use. Land uses include schools, libraries, and places of worship, museums, historically noteworthy sites, and active

parks where it is important to avoid interference with such activities as speech, meditation, and concentration on reading

Noise levels are measured in decibels (**dB**) and the A-weighted average measured in **dBA**. The noise-sensitive land use for this project is Category 2 involving residences and buildings where people normally sleep. Noise levels included in the study are moving vehicles.

Readings from these (EXTECH Digital data logging Sound Level Meter Model HD600) were used to identify the existing noise/sound levels. The Day-night average sound levels measured were 62.4 dBA, 63.9 dBA, 54.66 dBA and 53.21 dBA.

Based on the data collected of the general Noise Assessment, the results are within acceptable sound levels per HUD guidelines of less than 65 dB. The predicted increase over the existing noise levels is one decibel, which is typically not perceptible to the human ear. The receptors were calibrated and mounted on vertical posts which were placed along or within property boundaries.

Based on the results of the Noise Level Assessment, MAS-D recommends that engineering/architectural designs for the buildings to incorporate noise attenuation features to the extent required by HUD environmental criteria and standards contained in Subpart B (Noise Abatement and Control).

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