



Brangus Drive. The proposed alignment is located behind these multi-family apartment buildings, along North Lake College Road, which is directly to the south of the apartments. Existing noise sources include local traffic on North Lake College Road and aircraft arriving at or departing from DFW Airport.

- Mandalay Place (Brangus Drive). These single family residences are located on St. Croix and St. Monet, off of Brangus Drive. The proposed alignment is located behind these single-family residences. Existing noise sources include local traffic on Brangus Drive and aircraft arriving at or departing from DFW Airport.

Existing ambient noise levels in the above areas were characterized through direct measurements at selected sites along the proposed alignment during the period from August 30 through September 1, 2005 and July 5 through July 6, 2006. Estimating existing noise exposure is an important step in the noise impact assessment since, as indicated above in Section 3.5.1, the thresholds for noise impact are based on the existing levels of noise exposure. The measurements included both long-term (24-hour) and short-term (60 minute) monitoring of the A-weighted sound level at representative noise-sensitive locations.

All of the measurement sites were located in noise-sensitive areas, and were selected to represent a range of existing noise conditions along the corridor. **Figure 3-19** shows the general location of the four long-term monitoring sites (LT-1 through LT-5) and one short-term monitoring site (ST-1). At each site, the measurement microphone was positioned to characterize the exposure of the site to the dominant noise sources in the area.

For example, microphones were located at the approximate setback lines of the receptors from adjacent roads or rail lines, and were positioned to avoid acoustic shielding by landscaping, fences or other obstructions.

The results of the existing ambient noise measurements, summarized in **Table 3-24**, serve as the basis for determining the existing noise conditions at all noise-sensitive receptors along the Irving Line of the Northwest Corridor. The results at each site are described below.

**TABLE 3-24  
SUMMARY OF EXISTING AMBIENT NOISE MEASUREMENT RESULTS**

Site No.	Measurement Location Description	Start of Measurement		Meas. Time (hrs)	Noise Exposure (dBA)	
		Date	Time		Ldn	Leq
LT-1	Cistercian Abbey – Irving	8-31-05	16:00	24	68	--
LT-2	Lofts at Las Colinas – Irving	8-30-05	16:00	24	63	--
LT-3	Los Colinas Studio Plus – Irving	7-05-06	14:00	24	64	--
LT-4	The Villas at Beaver Creek – Irving	8-30-05	17:00	24	56	--
LT-5	Archstone at MacArthur Apartment Homes – Irving	8-30-05	15:00	24	58	--
ST-1	Miss Bloomingdale’s Academy – Irving	9-01-05	8:20	1	--	60

Source: Harris Miller Miller & Hanson Inc., 2006

- Site LT-1: Cistercian Abbey. The Ldn measured at the Abbey was 68 dBA. The ambient noise levels were dominated by noise from the John W. Carpenter Freeway (SH 114). Ambient noise levels were monitored for 24 hours.