APPENDIX 8.5A

AFC Ambient Noise Survey Details and Results

Noise Appendix 8.5a

AFC Ambient Noise Survey Details and Results

Introduction

The area in the vicinity of the Project site consists of commercial, recreational, and, farther away, residential usages. The commercial uses are mostly along Bay Boulevard, east of the site, as well as additional commercial establishments along Industrial Boulevard and L Street (on the east side of the I-5 freeway). The nearest recreational uses are the City of Chula Vista Marina View Park to the north of the SBPP area, and, farther north, the marina itself. There is a small water park on the west side of Industrial Boulevard (between the street and the I-5 freeway), just south of L street. The nearest residential areas are due east of the Project site, on the inland side of the I-5, at the Brentwood Park Trailer Park. This area is in the Chula Vista medium-density residential classification. Farther away, to both the northeast and southeast, are additional residential areas. The former (near the intersection of Industrial Boulevard and L Street) are several multi-family residential apartment complexes, while the latter is a neighborhood of low-medium density detached houses (southeast of the intersection of Stella Street and Bay Boulevard). There is one school, Harborside Elementary, that is approximately ½–mile from the center of the proposed SBRP plant. No other schools were found to be within approximately 1½ miles of the proposed project. Likewise, there are no houses of worship located within approximately 1 mile of the project site (the closest are between Broadway and 4th Avenue to the east and between Palomar Street and Main Street to the south). The closest medical facility is the County Health and Human Services Agency clinic at the northeast corner of Industrial Boulevard and Oxford Street, but this is a day-use, outpatient-only facility with no overnight patient care. The nearest full-service hospital is believed to be Scripps Memorial Hospital – Chula Vista, near 4th Avenue and H Street; nearly 2 miles from the project site.

Measurement Overview

Given the area reconnaissance, eleven measurement locations were chosen to conduct ambient noise level monitoring as part of the existing conditions assessment. Noise level data were collected on December 14, 15, and 16, 2005 at these locations, which are summarized in Table 8.5a-1 and are depicted in Figure 8.5a-1.

Since this monitoring was conducted, it is believed that there have been no significant environmental changes in the area. To fully document these noise conditions, all eleven locations were monitored for at least 25 hours continuously (per CEC guidelines) and short-term frequency-band level data (typically 15-minute samples) were also acquired during at least mid-day, evening, and late-night periods.

Sources of environmental noise in the vicinity of the Project area are primarily transportation-related; dominated by heavy vehicle flows on Interstate-5, as well as significant arterial noise on Bay Boulevard, Palomar Street, Industrial Boulevard, and L Street. There is also significant community noise from the rail lines immediately east of Industrial Boulevard that serve both light-rail, trolley cars (the San Ysidro Southline, "red-line trolley") and heavy, freight rail operations (during the late-night hours after the trolley runs have concluded). Further, there was noted to be significant aircraft noise influences from commercial, military, general-aviation, and helicopter fly-overs (see the next subsection for more information on the ambient noise environments around the proposed project site).

Following a discussion of the measurement techniques and methodologies, the results, including time histories, spectral samples, field observations, and photographic records, are provided for each location.

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Table App 8.5a-1
Summary of AFC Ambient Measurement Locations and Relevance

Location	Full Description	Importance
AFC-1	West end of Unit D at 890 Colorado Street (Sierra Creek Apartments); 100' north of L Street sidewalk; 55' east of centerline of nearest rail line; on roof of attached laundry room	Closest multi-family land use
AFC-2	Brentwood Trailer Park, near I-5 side; at south end of Unit F-8 (178' to park fenceline plus ~35' to edge of pavement on I-5)	Nearest single-family residential area and a representative location in trailer park on the I-5 side
AFC-3	Brentwood Trailer Park, near Industrial Boulevard side; at east end of Unit I-17 (94' to park boundary wall plus ~20' to curb)	Nearest single-family residential area and a representative location in trailer park on the Industrial Blvd. side
AFC-4	West property boundary of Harborside Elementary School; 85' south of Naples Street curb	Closest school
AFC-5	NW corner of front yard at 889 Stella Street	Closest single-family residential area to the southeast of the site
AFC-6	Near southwest corner of front grassy area at 1021 Bay Boulevard (near entrance sign)	Closest commercial land use
AFC-7	On 115-acre SBPP industrial site; south side of plant at extension of water intake structure bridge; on top of fuel oil tank berm; west side of access road	Assessing SBPP noise to south; near potential BFMP bay access area
AFC-8	On 115-acre SBPP industrial site; in truck wash-out area; along extension of north-side longitudinal face of power structure; 610' east of east face of Unit #4	Assessing SBPP noise to east; near potential BFMP open/park area
AFC-9	On 115-acre SBPP industrial site; 305' northward from Telegraph Creek bridge; in line with Unit #2 stack; half-way between plant roads	Assessing SBPP noise to NE; at nearest point of potential BFMP MFR condo complexes
AFC-10	On 115-acre SBPP industrial site; in outdoor storage yard; in line with west end of small turbine yard and north end of fuel oil tank containment berm	Assessing SBPP noise to north; in potential BFMP RV development
AFC-11	Chula Vista Marina View Park; at water side of park (toward plant); adjacent to south-end picnic area (near parking lot); at tree line next to water's edge	Closest recreational use

Source: Alliance Acoustical Consultants, Inc., 2006

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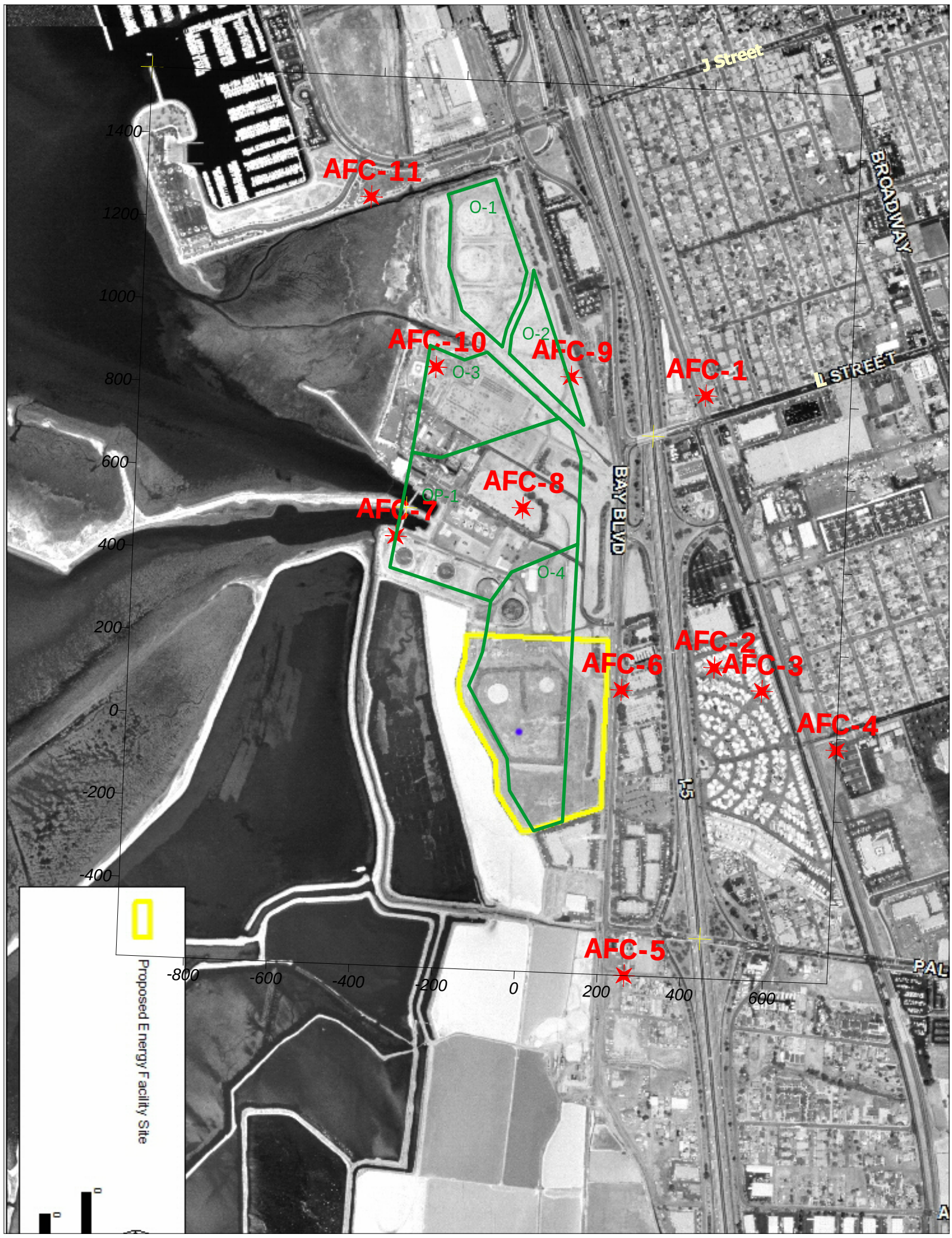
CH2M-Hill/AAC base map scale factor=86.666
AAC contour map scale factor=266.666
Contour overlay rotated -2.34°

Input File: n/a
Output File: n/a
Deliverable: MeasLocs-AFC2.pdf



Community Locations

- ***AFC-1: West end of 890 Colorado Street apartments, by Unit D***
- ***AFC-2: West side of Brentwood Park Mobile Home Park (by Unit F-8)***
- ***AFC-3: East side of Brentwood Park Mobile Home Park (by Unit I-17)***
- ***AFC-4: West property line of Harborside Elementary School***
- ***AFC-5: 889 Stella Street, NW corner of front yard***
- ***AFC-6: 1021 Bay Blvd. commercial park, near SW corner of lot (by sign)***
- ***AFC-7: SBPP tank farm access road (at top of entrance berm)***
- ***AFC-8: SBPP truck wash-off area (east of SBPP end)***
- ***AFC-9: SBPP across Telegraph Creek (near future condo lots)***
- ***AFC-10 SBPP storage yard, west of large switchyard***
- ***AFC-11: Chula Vista Marina Park, near west end parking lot***

LSP South Bay, LLC
South Bay Replacement Project (SBRP)

December 14-16, 2005
Ambient Noise Survey Locations

- ***Using cropped basemap from CH2M-Hill aerial (AACzoom2)***
- ***Scales are matched per B&V modeling grid system (metric)***
- ***PoSD land use planning zones to north of site (in green) is from Att 2 of CVBFMP EIR NoP document, dated 08/12/05***
- ***Metric scale of approximately 1mm = 10.55m***

Alliance Acoustical Consultants, Inc.

Figure 8.5a-1

Measurement Methodology

As part of the AFC analysis, measurements were collected on December 14, 15, and 16, 2005 at 11 community locations around the proposed Project site. All 11 locations were monitored for over 25 hours continuously, using battery-operated, self-contained noise data acquisition equipment. The instrumentation was set to sample over 15-minute periods and acquired L_{max}, L_2, L_8, L_{25}, L_{50}, L_{90}, L_{99}, L_{min}, and L_{eq} noise metrics for each sampling period. From the L_{eq} data, CNEL and L_{dn} metrics were calculated.

These long-term monitoring data were supplemented by short-term monitoring, nominally conducted over 15-minute sampling periods, wherein octave band spectral levels were measured and general conditions and sources that were controlling the noise environment were noted by field staff. These short-term, spectral measurements and observations were conducted at each of the eleven locations at three to four different times of day to assess the changing diurnal conditions. The field notes also included general observations of the prevailing weather conditions, while exact meteorological data for the period was obtained from the SBPP meteorological station. Lastly, the operating conditions for each of the existing power generation units at the SBPP were obtained from the plant engineering department.

Noise level measurement instrumentation used during the December 2005 ambient survey included two types of Sound Level Meter (SLM) systems made by Larson-Davis (LD), with support sub-systems (e.g. pre-amplifiers, microphones, and field calibrators) made by either LD or Brüel and Kjær (B & K). All instrumentation was within the standard laboratory calibration cycle[1] and all meters were operated according to the manufacturers' specifications. For all measurements, each Sound Level Meter (SLM) system was calibrated before the start of the measurement with a portable, field acoustic calibrator. After completion of the measurement program, a calibration check was performed on each SLM to determine if the instrument was operating properly and if there was calibration drift. All equipment experienced no more than 0.5 dB drift during the measurement program[2]. The instruments used in the noise measurements are summarized in Table 8.5a-2.

Generally speaking, weather conditions during the survey sessions were noted to be typical for the area in mid-winter. Daytime temperatures (°F) ranged from the mid- to upper-60's. Evening and nighttime temperatures (°F) were typically in the low- to mid-50's. The relative humidity was stayed in the range of 50 to 80%. Mild winds were observed intermittently during the measurement period. They were generally from the WNW to the NNW during the daytime of 12/14 and 12/15 (noon to 9 p.m.), starting from the NW and gradually shifting to being from the SSW between noon to 9 p.m. of 12/16/05, and typically from the NE to the SE between 9 p.m. and noon the following day. The wind speeds were usually 0 to 6 mph in the evening/nighttime and 0 to 10 mph (with occasional gusts to12 to 13 mph) during the daytime[3]. These speeds are below the limits specified in industry standards for conducting outdoor measurements. The noise impact from the winds at these speeds is judged to be negligible, since each measurement microphone included a windscreen, as is standard industry practice for outdoor measurements. Daytime skies were generally sunny and clear or sunny with patchy clouds, while nighttime skies typically had thin, high clouds or hazy, light overcast conditions. There was a full moon on the night of December 15th. There was no precipitation encountered during the measurement program. The meteorological conditions are summarized in Figure 8.5a-2 (temperature and humidity) and Figure 8.5a-3 (wind speed and wind direction).

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[1] calibration records are available upon request

[2] The single exception to this result was at location AFC-04 (Harborside Elem. School) wherein end-calibration levels were approximately 1.5 dB low. Thus, this location's record is under-reporting actual environmental sound levels by a small amount over some period of the time history. As such, this would result in a conservative noise impact assessment since potential additions to the ambient record, as caused by the proposed Project, would be compared to noise levels that are lower than the actual, real-world levels.

[3] Note that these meteorological data are from the SBPP weather station, which is located on the wildlife habitat 'spit' to the west of the plant (well into the San Diego Bay). As such, the reported wind speeds there are expected to be somewhat higher than on the mainland (at the actual noise measurement locations) which would experience wind reduction effects near ground level due to intervening vegetation and structures.

Table 8.5a-2

South Bay Field Instrumentation Documentation

AFC Ambient Noise Survey of 12/14-16/05

System	Component	Manufr	Model	S/N	Last Calib	Calib due	Notes
Loc. AFC-1	SLM/Analyzer	Larson-Davis	870	338	21-Jun-05	21-Jun-06	870 System 4
	Preamp	Larson-Davis	900B	3379	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4155	1919588	21-Jun-05	21-Jun-06	
Loc. AFC-2	SLM/Analyzer	Larson-Davis	870	338	21-Jun-05	21-Jun-06	870 System 4
	Preamp	Larson-Davis	900B	3379	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4155	1919588	21-Jun-05	21-Jun-06	
Loc. AFC-3	SLM/Analyzer	Larson-Davis	870B	1195	21-Jun-05	21-Jun-06	870 System 5
	Preamp	Larson-Davis	900C	1293	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4155	1479419	21-Jun-05	21-Jun-06	
Loc. AFC-4	SLM/Analyzer	Larson-Davis	870	34	21-Jun-05	21-Jun-06	870 System 1
	Preamp	Larson-Davis	900B	4096	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4188	2051325	21-Jun-05	21-Jun-06	
Loc. AFC-5	SLM/Analyzer	Larson-Davis	870B	1195	21-Jun-05	21-Jun-06	870 System 5
	Preamp	Larson-Davis	900C	1293	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4155	1479419	21-Jun-05	21-Jun-06	
Loc. AFC-6	SLM/Analyzer	Larson-Davis	870	506	21-Jun-05	21-Jun-06	870 System 2
	Preamp	Larson-Davis	900C	1292	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4188	2121447	21-Jun-05	21-Jun-06	
Loc. AFC-7	SLM/Analyzer	Larson-Davis	870	506	21-Jun-05	21-Jun-06	870 System 2
	Preamp	Larson-Davis	900C	1292	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4188	2121447	21-Jun-05	21-Jun-06	
Loc. AFC-8	SLM/Analyzer	Larson-Davis	814	156	3-Aug-05	3-Aug-06	814 System 2
	Preamp	Larson-Davis	904	126	3-Aug-05	3-Aug-06	
	Mic	Bruel & Kjaer	4155	1693539	6-Oct-05	6-Oct-06	
Loc. AFC-9	SLM/Analyzer	Larson-Davis	814	152	3-Aug-05	3-Aug-06	814 System 1
	Preamp	Larson-Davis	904	101	3-Aug-05	3-Aug-06	
	Mic	GRAS	4165	1604519	6-Oct-05	6-Oct-06	
Loc. AFC-10	SLM/Analyzer	Larson-Davis	870	342	21-Jun-05	21-Jun-06	870 System 3
	Preamp	Larson-Davis	900B	3503	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4155	1567457	6-Sep-05	6-Sep-06	
Loc. AFC-11	SLM/Analyzer	Larson-Davis	870	34	21-Jun-05	21-Jun-06	870 System 1
	Preamp	Larson-Davis	900B	4096	21-Jun-05	21-Jun-06	
	Mic	Bruel & Kjaer	4188	2051325	21-Jun-05	21-Jun-06	
Short-term	SLM/Analyzer	Larson-Davis	814	227	3-Aug-05	3-Aug-06	814 System 5
	Preamp	Larson-Davis	904	254	3-Aug-05	3-Aug-06	
	Mic	Gras	40AQ	38152	6-Oct-05	6-Oct-06	
	Calibrator	Bruel & Kjaer	4231	1883655	6-Oct-05	6-Oct-06	Primary
	Calibrator	Bruel & Kjaer	4231	1795555	6-Oct-05	6-Oct-06	Back-up

South Bay Power Plant

Temperature and Humidity Records during December 2005 Ambient Survey

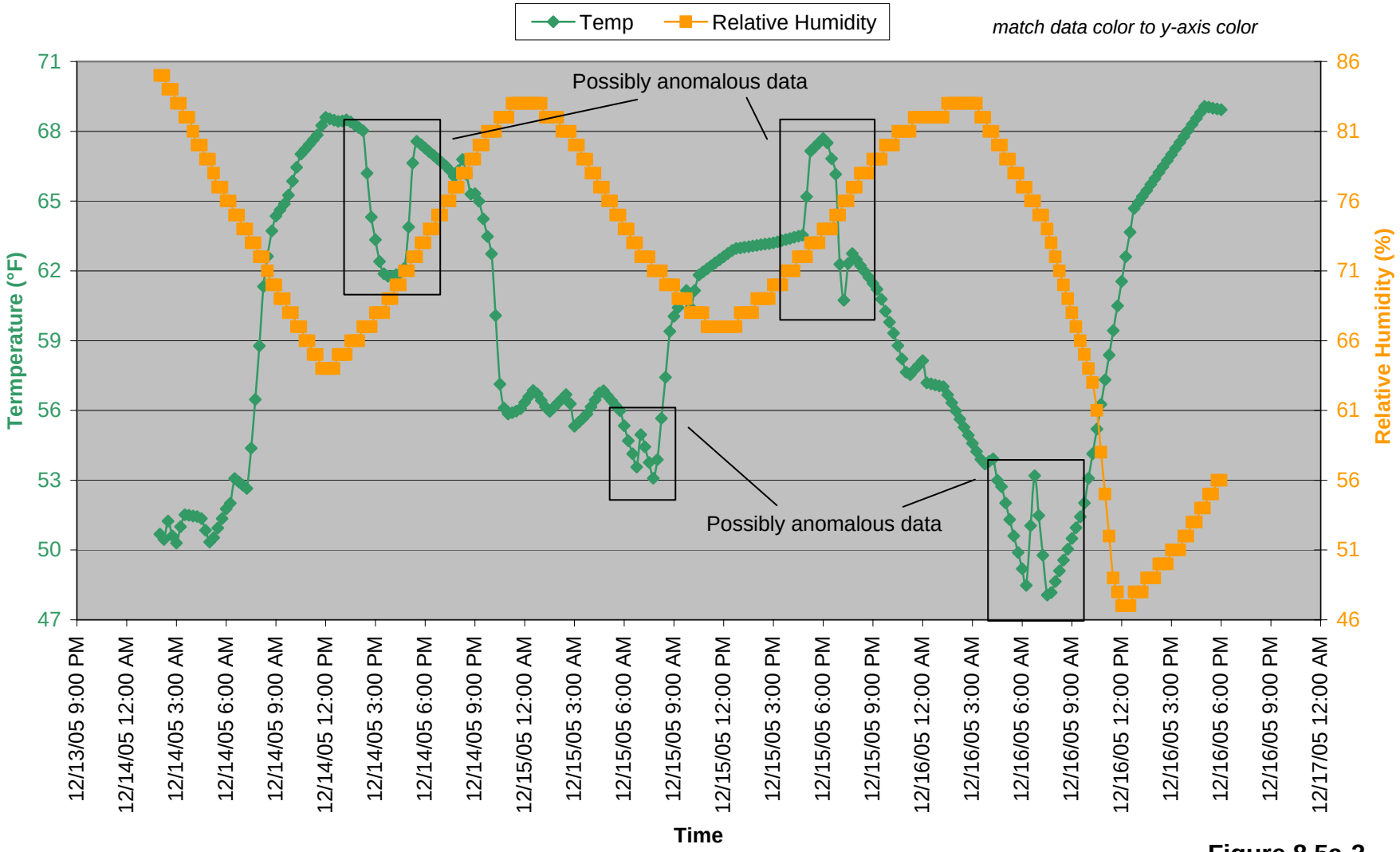

Figure 8.5a-2

South Bay Power Plant

Wind Records during December 2005 Ambient Survey

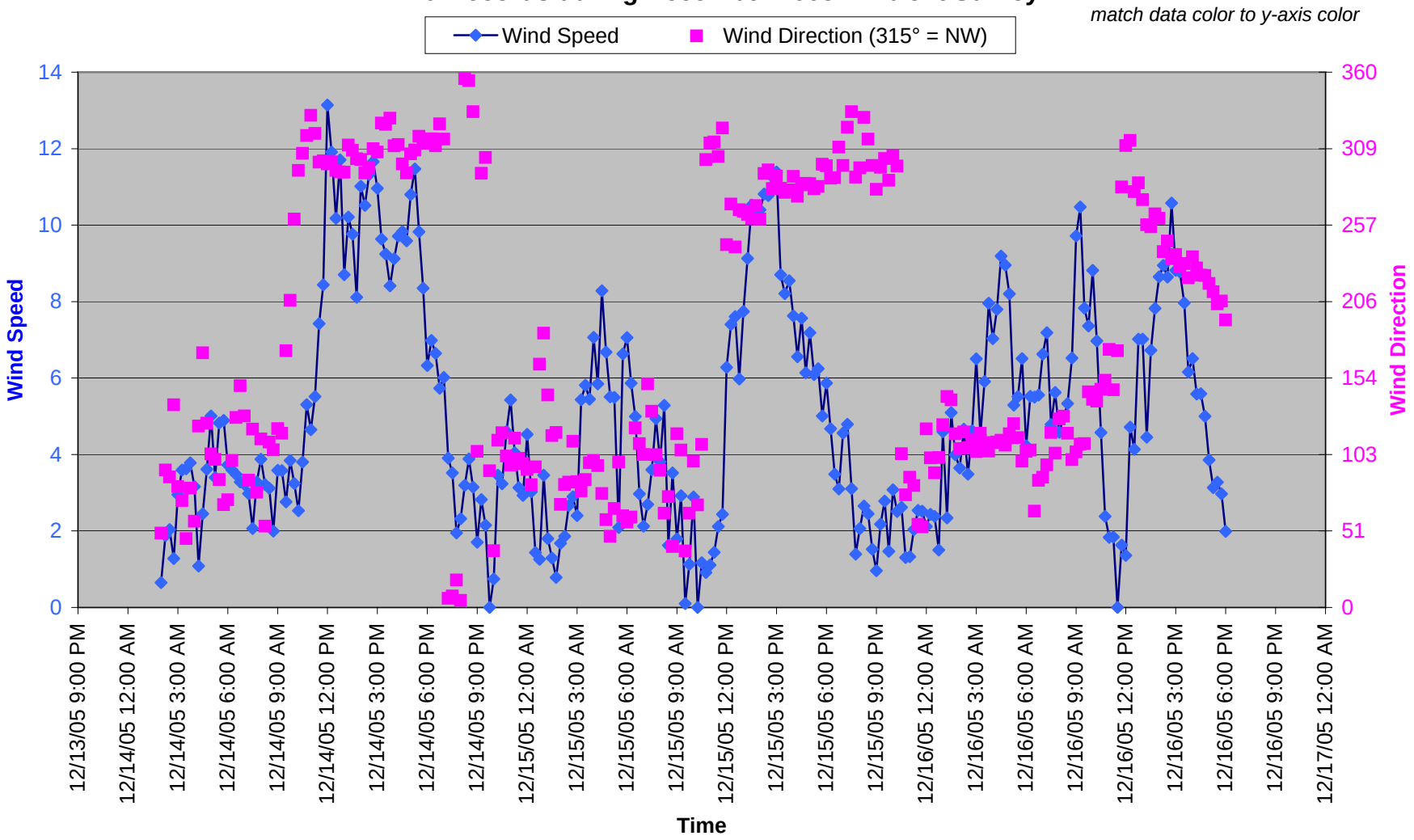

Figure 8.5a-3

As part of the current ambient conditions, operations of the SBPP were deemed to be typical for that time of year and for the general power grid demands for the mild temperatures. Total SBPP power production was approximately 500 MW during the daytime of the 14th, 350 to 450 MW during the daytime of the 15th, and 350 MW during the daytime of the 16th. Overnight power output levels were consistently in the range of 100 to 150 MW. The output split between units, however, varied during the ambient survey program. During the first two days, the highest production, by unit, was from Unit #3, followed by lower production values from Units #1 and #2. On 12/14/06, the respective outputs for these three units were nearly 100%, whereas the triplet was running at approximately 70% of their declared capacities on 12/15/06. On the third day (12/16), Unit #3 was completely off and the highest producer was Unit #4; again, followed by Units #1 and #2. In terms of the declared capacities, Units #1 and #2 were, again, around 70%, while Unit #4 was just below 60% of its nominal capacity on the 16th. It should be noted that each unit has somewhat different equipment (as the plant was expanded, modified, and upgraded over it history). Thus, the overall plant noise emissions are dependent on a combination of total plant power production, individual unit output, and unit-to-unit differences. Regarding the latter parameter, SBPP staff has indicated that Unit #4 is the noisiest of the four units, given its particular configuration of forced-draft fans and other fundamental power-production equipment. Therefore, SBPP noise emissions cannot simply be judged or evaluated by just the plant's total power output as unit-to-unit differences (such as Unit #4 being noisier than the other units) will make for a more complicated noise relationship[4]. The SBPP power output conditions are summarized in Figure 8.5a-4 which shows each unit's production, as well as the total of the entire plant (source: SBPP Engineering Department).

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[4] This complicated unit-to-unit noise emissions relationship has not been fully evaluated. Further, it may not be possible to ever evaluate it, since the unit-by-unit loading and total SBPP power production is under the control of the CAL-ISO, given the overall power grid demands and the underlying unit efficiency determinations for any given day's energy needs. That is, a sequential, one-unit-operating-at-a-time noise evaluation is precluded in favor of overall power grid management.

South Bay Power Plant

Power Production (re output megaWatts) during December 2005 Ambient Survey

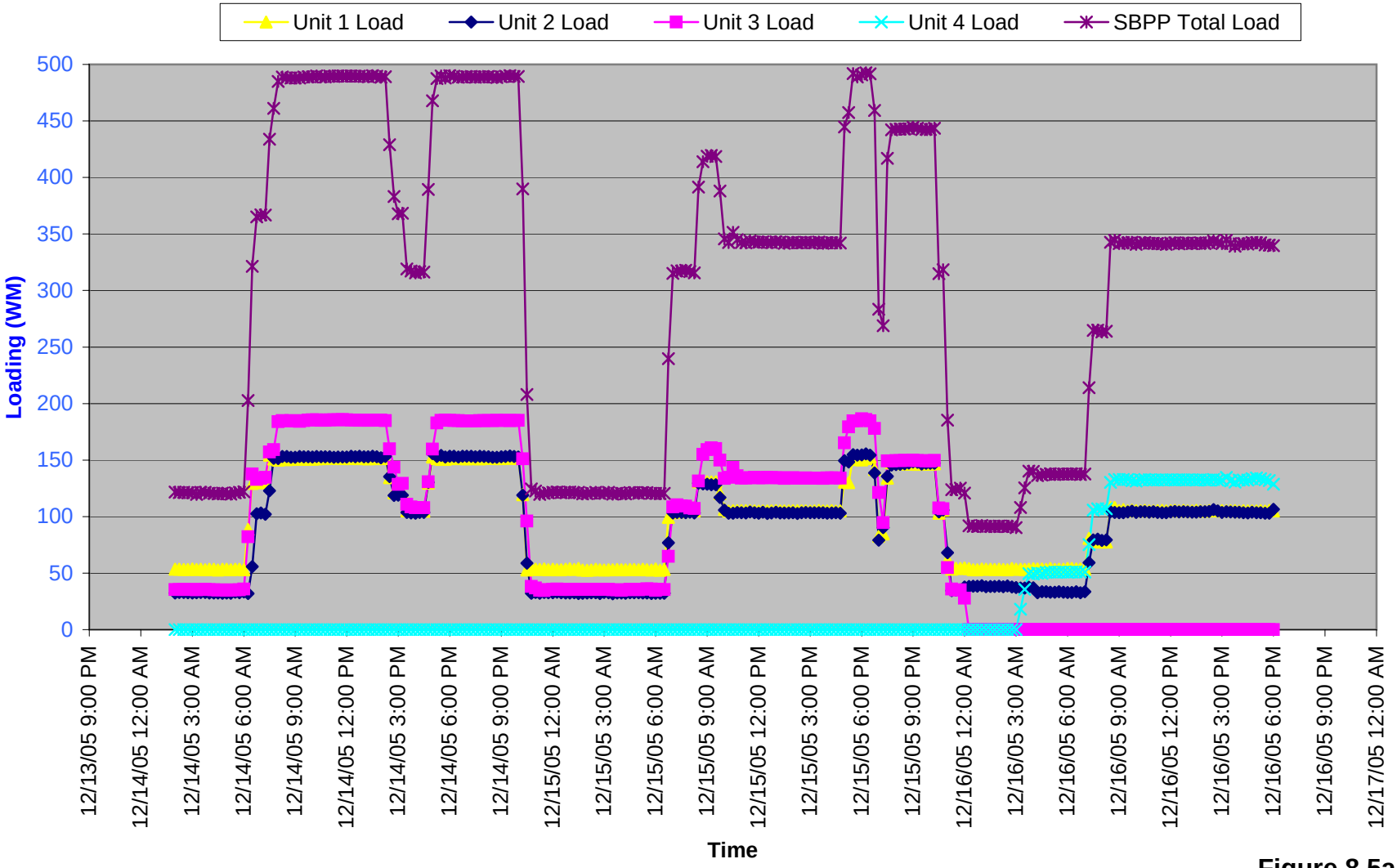

Figure 8.5a-4

General Results

Measurement results for the 25-hour, long-term ambient sound level monitoring during the December 2005 survey are summarized in Table 8.5a-3. This table shows the measurement period at each location, as well as the key noise metrics in terms of the L_{90} (residual) sound level, the L_8 (intrusive) sound level[5], and the one-hour Leq (energy-equivalent) sound level. The latter metric is important since the City of Chula Vista Noise Ordinance is built around this averaged sound level type.

Table 8.5a-3
Summary of **Long-term** AFC Ambient Measurement Results

Location	Brief Description	Long-term Monitoring Period (date and hr:min)	Long-term Monitoring Data Ranges*, SPL in dBA		
			15-min. L_{90} (min ,max times per hr:min)	1-hour L_{eq} (min, max times per hr:min)	15-min. $L_8 \approx L_{10}$ (min, max times per hr:min)
AFC-1	Colorado Street Apts	12/14/05 09:50 to 12/15/05 11:44	49.6 – 65.5 02:51, 14:36	55.1 – 69.0 dBA 03:06+, 16:06+	54.9 – 71.9 03:21, 16:36
AFC-2	Brentwood Trailer Park, I-5 side	12/15/05 12:00 to 12/16/05 13:35	50.1 – 64.9 01:57, 14:42	55.5 – 65.9 dBA 01:57+, 13:57+	57.8 – 68.1 01:57, 14:42
AFC-3	Brentwood Trailer Park, Industrial Blvd side	12/15/05 12:12 to 12/16/05 13:45	43.3 – 58.9 23:45, 15:45	46.5 – 64.2 dBA 00:45+, 12:45+	46.9 – 69.0 00:45, 15:45
AFC-4	Harborside Elem. School	12/15/05 12:29 to 12/16/05 14:01	43.7 – 60.7 23:43, 13:43	49.0 – 66.1 dBA 01:13+, 13:13+	49.7 – 74.7 00:43, 12:28
AFC-5	Stella Street	12/14/05 10:10 to 12/15/05 11:30	42.2 – 58.2 00:45, 05:45	49.3 – 62.2 dBA 01:30+, 14:30+	48.4 – 67.1 02:00, 16:45
AFC-6	1021 Bay Blvd	12/14/05 08:45 to 12/15/05 10:08	47.8 – 62.9 02:47, 09:47	55.7 – 68.3 dBA 01:02+, 09:02+	58.1 – 75.6 03:17, 09:47
AFC-7	SBPP site; south of plant	12/15/05 10:21 to 12/16/05 12:30	58.1 – 64.3 13:51, 07:36	59.6 – 64.8 dBA 12:36+, 07:36+	59.9 – 68.1 12:51, 11:36
AFC-8	SBPP site; east of plant	12/15/05 10:31 to 12/16/05 12:50	51.7 – 65.2 11:45, 07:30	56.0 – 66.2 dBA 13:00+, 11:00+	53.9 – 67.6 11:00, 09:00
AFC-9	SBPP site; NE of plant	12/15/05 11:10 to 12/16/05 12:57	52.1 – 62.3 11:15, 07:15	54.8 – 62.4 dBA 00:15+, 11:15+	54.9 – 65.9 00:15, 11:30
AFC-10	SBPP site; north of plant	12/15/05 10:42 to 12/16/05 12:41	56.6 – 62.8 12:12, 07:12	57.9 – 66.6 dBA 13:57+, 10:57+	58.4 – 75.7 14:12, 10:57
AFC-11	Marina View Park	12/14/05 09:20 to 12/15/05 11:20	44.0 – 58.3 01:07, 05:52	49.4 – 59.1 dBA 01:22+, 05:22+	47.1 – 65.2 01:07, 16:37

Source: Alliance Acoustical Consultants, Inc., 2006

* data acquisition used 15-minute sampling periods which are reported for L_{90} and L_8 metrics, while the 15-minute L_{eq} data were post-processed to arrive at the reported one-hour L_{eq} value (for use with respect to the City of Chula Vista Noise Ordinance).

[5] Note that the L_8 was the actual noise metric sampled during the survey, but it is considered to be effectively equivalent to the L_{10} (intrusive) sound level for community noise assessments. These two metrics will, therefore, be used interchangeably in this document.

In addition to the long-term, A-weighted monitoring efforts, each ambient location was also studied in terms of short-term (i.e. approximately 15 minute) frequency-band sampling to investigate the spectral characteristics of the existing noise environments. These are summarized in the following two tables.

Table 8.5a-4
Summary of **Short-term** AFC Ambient Measurement Results

Location	Brief Description	Short-term Monitoring Periods and A-wtd L_{eq} Sound Levels			
		Morning	Mid-day	Evening	Nighttime
AFC-1	Colorado Street Apts	--	12/14/05 (Wed) 15:22:47 start 0:15:06 duration **68.0 dBA**	12/14/05 (Wed) 20:21:59 start 0:15:10 duration **66.3 dBA**	12/15/05 (Th) 1:57:57 start 0:15:30 duration **56.0 dBA**
AFC-2	Brentwood Trailer Park, I-5 side	--	12/15/05 (Th) 13:34:14 start 0:15:05 duration **66.4 dBA**	12/15/05 (Th) 20:25:50 start 0:15:12 duration **63.4 dBA**	12/16/05 (Fri) 3:45:24 start 0:15:06 duration **58.0 dBA**
AFC-3	Brentwood Trailer Park, Industrial Blvd side	--	12/15/05 (Th) 13:57:04 start 0:15:05 duration **59.8 dBA**	12/15/05 (Th) 20:05:14 start 0:15:11 duration **55.8 dBA**	12/16/05 (Fri) 3:21:43 start 0:15:04 duration **46.9 dBA**
AFC-4	Harborside Elem. School	--	12/15/05 (Th) 14:41:00 start 0:15:11 duration **64.1 dBA**	12/15/05 (Th) 19:37:55 start 0:15:06 duration **58.6 dBA**	12/16/05 (Fri) 2:51:30 start 0:15:22 duration **59.0 dBA**
AFC-5	Stella Street	--	12/14/05 (Wed) 10:44:34 start 0:16:07 duration **64.8 dBA**	12/14/05 (Wed) 21:19:14 start 0:15:11 duration **57.2 dBA**	12/15/05 (Th) 1:31:36 start 0:14:44 duration **48.5 dBA**
AFC-6	1021 Bay Blvd	--	12/14/05 (Wed) 11:19:10 start 0:16:10 duration **67.2 dBA**	12/14/05 (Wed) 21:40:21 start 0:16:10 duration **62.3 dBA**	12/15/05 (Th) 2:23:45 start 0:15:38 duration **55.2 dBA**
AFC-7	SBPP site; south of plant	12/16/05 (Fri) 11:59:11 start 0:25:14 duration **64.6 dBA**	12/15/05 (Th) 15:14:33 start 0:15:05 duration **60.6 dBA**	12/15/05 (Th) 20:54:39 start 0:16:33 duration **65.1 dBA**	12/16/05 (Fri) 2:19:06 start 0:15:03 duration **63.0 dBA**
AFC-8	SBPP site; east of plant	12/16/05 (Fri) 11:07:56 start 0:17:34 duration **66.8 dBA**	12/15/05 (Th) 16:27:34 start 0:16:27 duration **59.8 dBA**	12/15/05 (Th) 21:26:19 start 0:15:08 duration **58.1 dBA**	12/16/05 (Fri) 1:34:44 start 0:15:15 duration **58.6 dBA**
AFC-9	SBPP site; NE of plant	12/16/05 (Fri) 10:36:06 start 0:15:05 duration **59.5 dBA**	12/15/05 (Th) 16:51:56 start 0:25:09 duration **56.5 dBA**	12/15/05 (Th) 22:13:36 start 0:15:28 duration **57.9 dBA**	12/16/05 (Fri) 1:13:30 start 0:15:04 duration **55.4 dBA**
AFC-10	SBPP site; north of plant	12/16/05 (Fri) 11:30:44 start 0:21:36 duration **61.0 dBA**	12/15/05 (Th) 15:59:49 start 0:15:19 duration **59.4 dBA**	12/15/05 (Th) 21:50:58 start 0:15:10 duration **61.1 dBA**	12/16/05 (Fri) 1:57:22 start 0:15:11 duration **60.8 dBA**
AFC-11	Marina View Park	--	12/14/05 (Wed) 14:25:40 start 0:15:48 duration **53.8 dBA**	12/14/05 (Wed) 20:51:16 start 0:15:31 duration **54.2 dBA**	12/15/05 (Th) 2:47:59 start 0:15:51 duration **54.8 dBA**

Source: Alliance Acoustical Consultants, Inc., 2006

* data acquisition used 15-minute sampling periods which are reported for L_{90} and L_8 metrics, while the 15-minute L_{eq} data were post-processed to arrive at the reported one-hour L_{eq} value (for use with respect to the City of Chula Vista Noise Ordinance).

South Bay Replacement Project (SBRP)

AFC Development Ambient Survey

Table 8.5a-5

December 14 - 16, 2005

Summary of all Spectral Sampling

Location	Time Period	Date	Time	Duration	31.5 Hz	63.0 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8kHz	16k Hz	OA (lin)	OA (A)
AFC-01	day	14-Dec-05	15:22:47	0:15:06	68.3	71.7	67.2	61.5	60.5	64.6	61.3	57.3	51.6	40.5	**75.3**	**68.0**
890 Colorado Street	evening	14-Dec-05	20:21:59	0:15:10	66.4	72.2	65.9	59.8	58.8	63.9	59.1	48.9	40.9	31.3	**74.8**	**66.3**
Apt. D	night	15-Dec-05	1:57:57	0:15:30	57.0	61.4	54.4	48.1	49.5	53.4	49.3	37.7	29.2	26.4	**64.2**	**56.0**
AFC-02	day	15-Dec-05	13:34:14	0:15:05	65.7	67.6	68.5	62.5	60.9	62.9	59.7	51.6	41.8	31.9	**73.5**	**66.4**
Brentwood Trailer Park	evening	15-Dec-05	20:25:50	0:15:12	64.0	67.6	68.0	59.4	59.1	59.6	56.0	48.0	36.5	26.5	**72.5**	**63.4**
I-5 side at Unit F-8	night	16-Dec-05	3:45:24	0:15:06	57.3	63.3	60.8	52.9	52.9	54.5	50.9	43.8	33.6	28.3	**66.7**	**58.0**
AFC-03	day	15-Dec-05	13:57:04	0:15:05	61.6	63.2	58.1	54.4	54.7	56.7	52.8	43.5	35.3	30.6	**67.4**	**59.8**
Brentwood Trailer Park	evening	15-Dec-05	20:05:14	0:15:11	56.9	58.5	56.6	50.3	50.6	52.8	48.8	36.5	27.7	26.3	**63.3**	**55.8**
Ind. Blvd. side at Unit I-17	night	16-Dec-05	3:21:43	0:15:04	50.5	55.2	50.6	43.8	43.1	43.6	37.9	29.0	26.2	26.3	**58.0**	**46.9**
AFC-04	day	15-Dec-05	14:41:00	0:15:11	64.4	66.2	62.2	56.2	58.8	60.7	56.8	52.3	48.8	37.9	**70.7**	**64.1**
Harborside Elem. School	evening	15-Dec-05	19:37:55	0:15:06	62.0	63.9	63.6	54.6	51.5	54.6	50.6	48.8	44.4	31.7	**68.6**	**58.6**
West Fenceline	night	16-Dec-05	2:51:30	0:15:22	70.4	71.3	62.1	56.0	56.2	51.4	49.9	51.4	46.3	32.0	**74.4**	**59.0**
AFC-05	day	14-Dec-05	10:44:34	0:16:07	68.0	70.5	64.2	56.9	66.3	58.2	50.6	43.5	39.2	26.7	**74.1**	**64.8**
889 Stella Street	evening	14-Dec-05	21:19:14	0:15:11	60.5	62.8	67.8	57.4	49.1	50.5	48.6	46.2	35.0	26.7	**70.0**	**57.2**
NW corner of lot	night	15-Dec-05	1:31:36	0:14:44	53.3	54.8	53.8	42.5	38.4	44.3	43.2	35.2	27.9	26.1	**59.2**	**48.5**
AFC-06	day	14-Dec-05	11:19:10	0:16:10	71.7	71.5	71.5	60.6	61.0	64.3	59.4	52.8	43.7	34.8	**76.9**	**67.2**
1021 Bay Blvd	evening	14-Dec-05	21:40:21	0:16:10	63.7	66.6	64.6	58.1	56.7	59.5	54.2	45.6	30.7	26.5	**70.8**	**62.3**
(Comm'l Zone)	night	15-Dec-05	2:23:45	0:15:38	59.6	62.9	59.4	53.7	50.7	51.5	47.1	38.1	28.5	29.4	**66.3**	**55.2**
AFC-07	mid-day	16-Dec-05	11:59:11	0:25:14	71.7	70.0	62.0	57.2	55.5	57.3	61.3	53.2	39.3	35.0	**74.7**	**64.6**
SBPP site	day	15-Dec-05	15:14:33	0:15:05	68.7	65.9	58.2	56.8	55.7	55.5	54.2	51.1	45.0	36.2	**71.3**	**60.6**
south side	evening	15-Dec-05	20:54:39	0:16:33	71.9	71.3	67.6	64.9	61.4	59.6	57.9	53.2	42.3	27.4	**76.1**	**65.1**
on fuel tank berm	night	16-Dec-05	2:19:06	0:15:03	68.6	67.2	62.1	59.0	58.3	57.4	57.0	53.8	42.1	27.4	**72.3**	**63.0**
AFC-08	mid-day	16-Dec-05	11:07:56	0:17:34	67.5	70.9	65.5	54.5	53.6	59.3	63.6	56.7	39.4	27.4	**74.1**	**66.8**
SBPP site	day	15-Dec-05	16:27:34	0:16:27	65.3	66.0	64.6	56.0	53.8	51.9	51.8	53.8	46.8	28.7	**70.6**	**59.8**
east side	evening	15-Dec-05	21:26:19	0:15:08	66.9	69.3	62.7	53.6	52.2	54.1	51.2	44.8	34.1	26.3	**72.1**	**58.1**
in truck wash-out area	night	16-Dec-05	1:34:44	0:15:15	64.9	70.7	62.7	53.1	52.0	53.8	51.9	48.6	38.5	28.4	**72.4**	**58.6**
AFC-09	mid-day	16-Dec-05	10:36:06	0:15:05	66.3	67.1	60.7	51.5	51.0	54.6	55.1	45.8	28.2	26.5	**70.6**	**59.5**
SBPP site	day	15-Dec-05	16:51:56	0:25:09	65.7	66.2	60.4	51.5	52.3	52.2	49.9	41.0	28.7	26.3	**69.8**	**56.5**
NE of plant	evening	15-Dec-05	22:13:36	0:15:28	65.0	67.7	59.2	50.8	51.7	55.1	50.7	40.4	27.5	26.1	**70.3**	**57.9**
across Telegraph Crk Bridge	night	16-Dec-05	1:13:30	0:15:04	60.4	64.2	57.4	47.7	49.4	52.4	48.4	40.2	28.3	26.2	**66.7**	**55.4**
AFC-10	mid-day	16-Dec-05	11:30:44	0:21:36	68.6	74.6	59.9	56.8	53.7	55.3	56.2	48.0	37.5	35.0	**75.9**	**61.0**
SBPP site	day	15-Dec-05	15:59:49	0:15:19	68.0	74.1	63.1	57.8	52.9	53.1	53.0	49.5	40.9	26.8	**75.5**	**59.4**
north side	evening	15-Dec-05	21:50:58	0:15:10	70.1	73.0	63.3	60.1	56.3	56.5	53.9	47.1	38.5	27.0	**75.4**	**61.1**
in storage yard	night	16-Dec-05	1:57:22	0:15:11	66.5	73.3	59.9	54.8	55.2	55.9	55.1	49.7	39.0	26.6	**74.5**	**60.8**
AFC-11	day	14-Dec-05	14:25:40	0:15:48	64.4	66.3	63.5	56.4	47.9	47.1	43.0	38.4	27.6	26.3	**69.9**	**53.8**
Marina View Park	evening	14-Dec-05	20:51:16	0:15:31	64.6	64.7	59.9	52.8	50.7	50.5	43.8	32.5	25.5	26.1	**68.6**	**54.2**
south end	night	15-Dec-05	2:47:59	0:15:51	58.7	58.5	57.2	49.7	52.0	51.6	45.8	33.7	26.0	26.1	**63.8**	**54.8**

source: Alliance Acoustical Consultants, Inc.; 2006

The 24-hour metrics, CNEL and L_{dn}[6], were calculated from the sampled energy-average, L_{eq}, values, starting at the sample period nearest the first whole hour. The results of these calculations are given below.

Table 8.5s-6
Summary of 24-hour Ambient Noise Level Metrics, A-wtd Sound Pressure Level

Location	Brief Description	24-hour L_{eq}, dBA	L_{dn}, dBA	CNEL, dBA
AFC-1	Colorado Street Apts	66.4	71.3	71.6
AFC-2	Brentwood Trailer Park, I-5 side	62.8	67.3	67.7
AFC-3	Brentwood Trailer Park, Industrial Blvd side	56.8	60.3	60.8
AFC-4	Harborside Elem. School	60.5	65.1	65.4
AFC-5	Stella Street	58.9	62.5	62.7
AFC-6	1021 Bay Blvd	64.9	68.6	68.9
AFC-7	SBPP site; south of plant	62.7	69.4	69.6
AFC-8	SBPP site; east of plant	61.5	67.7	67.8
AFC-9	SBPP site; NE of plant	58.7	64.6	64.8
AFC-10	SBPP site; north of plant	61.4	67.6	67.8
AFC-11	Marina View Park	55.3	61.7	61.9

Source: Alliance Acoustical Consultants, Inc., 2006

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[6] L_{dn} or DNL is the Day-Night Noise Level, a metric that was developed to account for an increased human sensitivity to nighttime noise levels and for the greater potential annoyance of noise during the nighttime hours. The actual nighttime noise levels are adjusted, based on the premise that both exterior and interior noise levels are generally lower than daytime levels and, therefore, nighttime noise can be more noticeable (than daytime conditions at the same location). Also, since most people sleep at night, there is often an increased sensitivity to intrusive noises. The day-night noise level, abbreviate L_{dn}, is the energy-average A-weighted sound level over a 24-hour period with an added 10 dB adjustment (penalty) for sounds that occur between 10 p.m. and 7 a.m.

CNEL, or Community Noise Equivalent Level was developed in California for evaluating noise levels in residential communities. The CNEL is similar to the L_{dn}, but differs in that a 5 dB evening penalty is also added to sounds that occur between 7 p.m. and 10 p.m. (as well as the L_{dn} penalty of +10 dB for nighttime sounds). In a large percentage of cases for general community noise, the L_{dn} and CNEL can be considered as equivalent.

In summary, the general ambient noise environments around the SBPP/SBRP industrial site, as measured and observed in December of 2005, are condensed in Table 8.5a-7.

Table 8.5s-7
Summary of AFC Ambient Noise Environments

Location	Brief Description	General Noise Environment
AFC-1	Colorado Street Apts	Traffic noise on I-5, L Street, and the end of Industrial Blvd., plus frequent, but short-lived commuter and freight train pass-bys.
AFC-2	Brentwood Trailer Park, I-5 side	Traffic noise on I-5 totally dominates this location – at all hours of the day and night.
AFC-3	Brentwood Trailer Park, Industrial Blvd side	Traffic noise on I-5, as well as on Industrial Blvd., with some influence from the frequent, but short-lived commuter and freight train pass-bys.
AFC-4	Harborside Elem. School	Traffic noise on Industrial Blvd., as well as on I-5, plus frequent, but short-lived commuter and freight train pass-bys (after school hours).
AFC-5	Stella Street	Predominantly traffic noise from the I-5, as well as Bay Blvd. and Stella Street. Additional contributions from salt processing equipment, wild-life, and the existing SBPP (faintly audible; depending on time of day, contributions of other sources, and the SBPP loading).
AFC-6	1021 Bay Blvd	Predominantly traffic noise from the I-5, then from Bay Blvd., with additional contributions from wildlife and the existing SBPP (depending on time of day, contributions of other sources, and the SBPP loading).
AFC-7	SBPP site; south of plant	Predominantly the existing SBPP with additional contributions from surf and wind noise, as well as wildlife and aircraft flyovers.
AFC-8	SBPP site; east of plant	Predominantly the existing SBPP with additional contributions from wildlife, aircraft flyovers, and, in the distance, the I-5 traffic.
AFC-9	SBPP site; NE of plant	Predominantly the existing SBPP with additional contributions from traffic on Bay Blvd and the I-5, as well as wildlife and aircraft flyovers.
AFC-10	SBPP site; north of plant	Predominantly the existing SBPP with additional contributions from a gas metering station, wildlife, aircraft flyovers, and, in the distance, the I-5 traffic.
AFC-11	Marina View Park	Mostly the existing SBPP with additional contributions from vehicle traffic on Marina Parkway, wildlife, and activities at the Marina facility.

Source: Alliance Acoustical Consultants, Inc., 2006

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Specific Results

The specific results for each location are presented herein on a location-by-location basis (discussion of noise environment observations, then the 25-hour time history chart and associated table, followed by the octave band spectral chart, and finished by a pictorial digest).

LOCATION AFC-1

AFC-1	West end of Unit D at 890 Colorado Street (Sierra Creek Apartments); 100' north of L Street sidewalk; 55' east of centerline of nearest rail line; on roof of attached laundry room	Closest multi-family land use

The Location AFC-1 time-history record indicates that throughout the day, the noise environment is very stable (note how the L_8 and L_{90} lines 'track' each other during the daylight hours and into the evening), which is a result of a steady noise source – in this case, the I-5 freeway. Residual (background) noise levels (L_{90}) between about 5 a.m. and 9 p.m. were uniformly in the range of 60 to 65 dBA, while the hourly L_{eq} values in this period were tightly clustered between 65 and 69 dBA; both owing to the dominance of the steady and continuous flow of cars that were observed at all hours of the day and night on Interstate-5. Note that these L_{eq} levels are 5 to 9 dB above the Chula Vista Noise Ordinance daytime limit for multi-family residential land uses. As the volume of traffic on the I-5 subsided overnight, the noise levels decreased such that the typical, late-night L_{90} levels were around 51 to 55 dBA and the associated hourly L_{eq} levels were between 55 and 68 dBA. Only one 15-minute sampling period showed nighttime L_{eq} levels that were in compliance with the Chula Vista ordinance at this location. The two prominent 'spikes' in the late-night record (around 1:00 a.m. and 2:00 a.m.) are due to heavy freight train pass-bys that reportedly happen each weeknight after the Red-line trolley service has finished for the day (around midnight). These freight train pass-bys, in and of themselves, are estimated to have increased the late-night hourly L_{eq} levels by 8 to 10 dB.

The Location AFC-1 spectral record indicates that the noise environment is being controlled by a common source throughout the day and night, given the very similar shapes of the curves. There is only a relatively narrow range of magnitude changes between these curves, owing to a simple change in the overall intensity of the common source. From field observations at this location, the dominant source is traffic noise from the I-5 freeway, as well as vehicles on the nearby major arterial surface streets. The only significant parameter that is changing over the course of a typical 24-hour period is the amount of cars traversing those roadways (hence, the levels changes, but the common spectral shapes). Commuter and freight train pass-bys would present a somewhat different spectral record, but these events, although fairly frequent, are very short-lived with respect to the daily noise environment.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-1 - Apt D at 890 Colorado St.

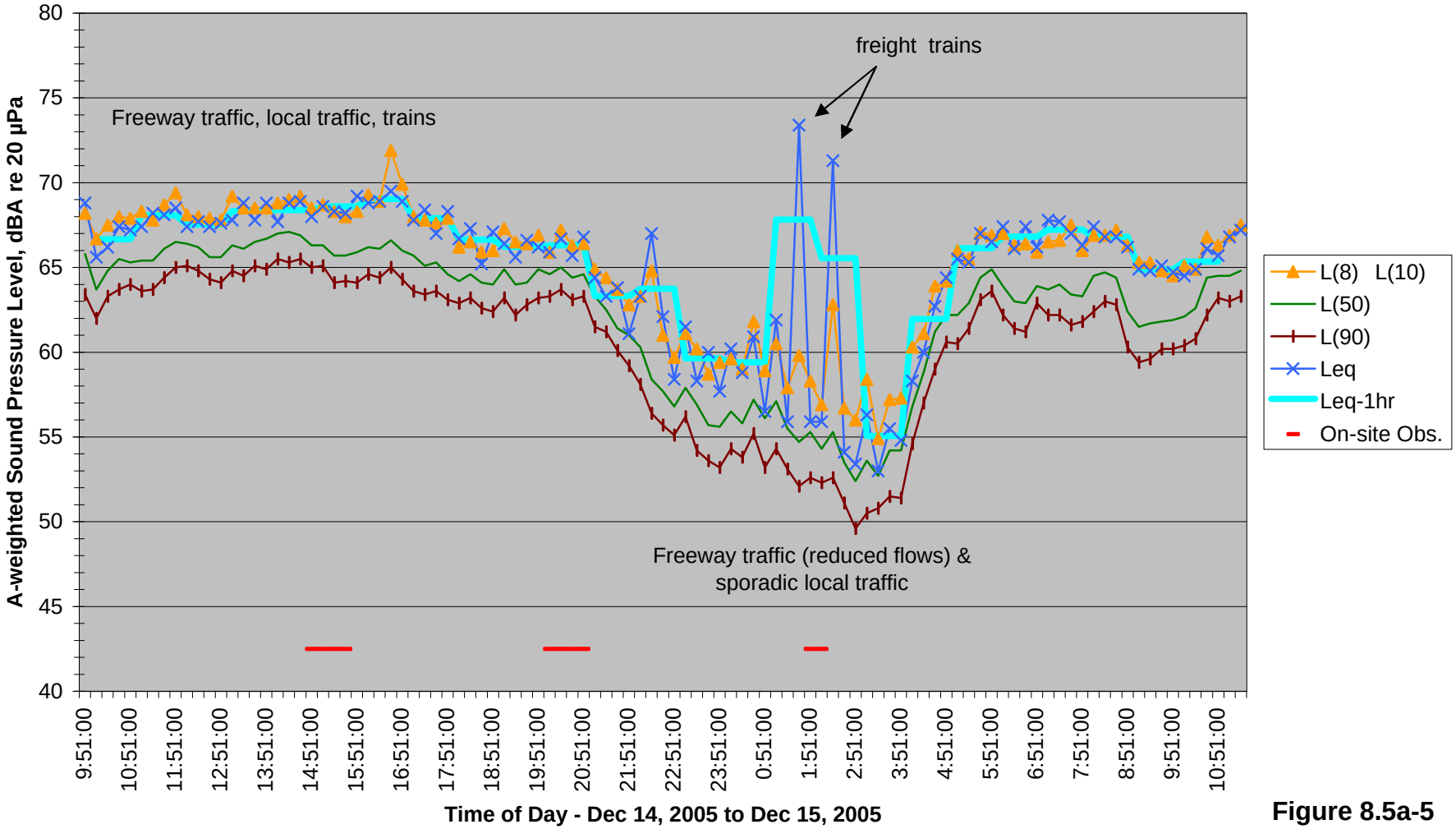

Figure 8.5a-5

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 14 - 15, 2005**
Location: **AFC-1**
Description: **West end of apartment building (Unit D) at 890 Colorado Street**

Date	Start Time	Duration	Leq	Lmax	Lmin	L(2)	L(8) L(10)	L(25)	L(50)	L(90)	L(99)
14-Dec-05	9:50:59	0.6	69.0	69.8	68.4	69.8	69.8	69.4	68.9	68.4	68.4
14-Dec-05	9:51:00	900	68.8	87.8	61.8	74.1	68.2	66.8	65.8	63.4	62.1
14-Dec-05	10:06:00	900	65.6	82.6	59.9	71.1	66.7	64.8	63.7	62.0	61.0
14-Dec-05	10:21:00	900	66.2	80.9	62.3	70.9	67.5	65.7	64.8	63.3	62.3
14-Dec-05	10:36:00	900	67.4	82.7	61.4	73.9	68.0	66.5	65.5	63.7	62.1
14-Dec-05	10:51:00	900	67.2	81.7	62.6	75.3	67.9	66.2	65.3	64.0	63.1
14-Dec-05	11:06:00	900	67.4	83.6	61.7	74.9	68.3	66.3	65.4	63.6	62.1
14-Dec-05	11:21:00	900	68.2	88.3	61.9	73.6	67.8	66.5	65.4	63.7	62.4
14-Dec-05	11:36:00	900	68.1	83.0	63.1	75.8	68.7	67.0	66.1	64.4	63.3
14-Dec-05	11:51:00	900	68.5	84.3	63.4	76.3	69.4	67.5	66.5	65.0	64.0
14-Dec-05	12:06:00	900	67.4	82.1	63.6	70.8	68.1	67.1	66.4	65.1	64.0
14-Dec-05	12:21:00	900	67.7	82.8	62.9	74.0	68.0	66.9	66.2	64.8	63.9
14-Dec-05	12:36:00	900	67.4	82.6	63.1	73.7	67.9	66.5	65.6	64.3	63.3
14-Dec-05	12:51:00	900	67.6	84.3	61.6	72.2	67.8	66.6	65.6	64.1	62.0
14-Dec-05	13:06:00	900	67.8	82.3	63.0	73.5	69.2	67.3	66.3	64.8	63.5
14-Dec-05	13:21:00	900	68.8	87.0	63.3	72.9	68.5	67.0	66.1	64.5	64.0
14-Dec-05	13:36:00	900	67.8	84.0	63.0	71.9	68.5	67.4	66.5	65.1	63.8
14-Dec-05	13:51:00	900	68.8	87.6	63.6	75.8	68.5	67.5	66.7	64.9	64.0
14-Dec-05	14:06:00	900	67.7	79.9	64.2	71.6	68.8	67.7	67.0	65.5	64.3
14-Dec-05	14:21:00	900	68.8	84.9	63.8	76.1	69.0	67.8	67.1	65.3	64.2
14-Dec-05	14:36:00	900	68.9	84.0	64.3	76.4	69.2	67.7	66.9	65.5	64.5
14-Dec-05	14:51:00	900	68.0	83.0	63.3	76.3	68.5	67.3	66.3	65.0	64.0
14-Dec-05	15:06:00	900	68.6	84.6	63.3	77.4	68.7	67.0	66.3	65.1	64.0
14-Dec-05	15:21:00	900	68.3	85.4	61.8	76.7	68.3	66.9	65.7	64.1	62.4
14-Dec-05	15:36:00	900	68.2	86.2	63.0	75.9	68.0	66.6	65.7	64.2	63.1
14-Dec-05	15:51:00	900	69.2	86.0	62.2	79.4	68.3	66.9	65.9	64.1	63.0
14-Dec-05	16:06:00	900	68.8	84.3	62.9	77.7	69.3	67.2	66.2	64.6	63.3
14-Dec-05	16:21:00	900	68.9	85.5	62.0	78.0	68.9	67.1	66.1	64.4	63.1
14-Dec-05	16:36:00	900	69.5	87.0	63.2	76.6	71.9	67.8	66.6	65.0	63.6
14-Dec-05	16:51:00	900	68.9	83.5	62.7	78.1	69.9	67.1	66.0	64.3	63.2
14-Dec-05	17:06:00	900	67.8	82.8	62.2	76.3	68.0	66.6	65.7	63.6	62.3
14-Dec-05	17:21:00	900	68.4	85.1	62.1	78.2	67.8	65.9	65.1	63.4	62.3
14-Dec-05	17:36:00	900	67.0	81.9	62.6	74.5	67.6	66.2	65.3	63.6	63.0
14-Dec-05	17:51:00	900	68.3	84.6	61.7	79.3	67.9	65.5	64.6	63.1	62.0
14-Dec-05	18:06:00	900	66.7	81.9	61.8	75.3	66.2	65.1	64.2	62.9	62.0
14-Dec-05	18:21:00	900	67.3	85.0	61.2	76.0	66.5	65.4	64.6	63.2	62.0
14-Dec-05	18:36:00	900	65.2	78.1	61.0	70.2	65.9	64.8	64.1	62.6	61.4
14-Dec-05	18:51:00	900	67.1	86.5	61.1	74.5	66.0	64.8	64.0	62.4	61.7
14-Dec-05	19:06:00	900	66.4	81.9	61.5	71.6	67.3	65.8	64.9	63.2	62.1
14-Dec-05	19:21:00	900	65.6	81.9	60.0	70.2	66.5	65.0	64.0	62.2	60.6
14-Dec-05	19:36:00	900	66.6	83.7	61.0	74.3	66.4	64.9	64.1	62.8	61.5
14-Dec-05	19:51:00	900	66.2	80.8	61.2	71.9	66.9	65.8	64.9	63.2	62.0
14-Dec-05	20:06:00	900	65.9	81.9	61.5	69.5	65.9	65.3	64.6	63.3	62.1
14-Dec-05	20:21:00	900	66.7	82.2	61.0	73.3	67.2	65.9	65.0	63.7	62.6
14-Dec-05	20:36:00	900	65.7	82.0	61.5	68.3	66.3	65.3	64.4	63.1	62.1
14-Dec-05	20:51:00	900	66.8	84.6	61.8	72.1	66.4	65.4	64.6	63.3	62.2
14-Dec-05	21:06:00	900	64.4	80.9	59.7	67.0	64.9	64.1	63.3	61.5	60.2
14-Dec-05	21:21:00	900	63.3	76.5	59.5	65.6	64.4	63.3	62.5	61.2	60.1
14-Dec-05	21:36:00	900	63.8	82.3	58.9	66.3	63.7	62.4	61.4	60.1	59.1
14-Dec-05	21:51:00	900	61.1	66.1	57.4	63.8	62.8	61.8	61.0	59.2	57.7
14-Dec-05	22:06:00	900	63.3	80.2	56.0	69.3	63.3	61.7	60.3	58.1	56.5
14-Dec-05	22:21:00	900	67.0	88.5	54.3	78.3	64.8	59.9	58.4	56.4	55.1
14-Dec-05	22:36:00	900	62.1	82.4	53.7	64.7	61.0	59.3	57.7	55.7	54.2
14-Dec-05	22:51:00	900	58.4	74.9	53.0	61.6	59.7	57.9	56.8	55.1	53.8
14-Dec-05	23:06:00	900	61.5	81.2	54.6	66.0	61.1	59.0	57.9	56.2	54.9
14-Dec-05	23:21:00	900	58.3	73.1	52.1	62.7	60.2	58.4	56.9	54.2	52.7
14-Dec-05	23:36:00	900	60.0	80.7	52.2	61.9	58.7	56.9	55.7	53.6	52.4
14-Dec-05	23:51:00	900	57.7	73.3	51.4	63.7	59.4	56.9	55.6	53.2	52.1

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 14 - 15, 2005**
Location: **AFC-1**
Description: **West end of apartment building (Unit D) at 890 Colorado Street**

Date	Start Time	Duration	Leq	Lmax	Lmin	L(2)	L(8) L(10)	L(25)	L(50)	L(90)	L(99)
14-Dec-05	9:50:59	0.6	69.0	69.8	68.4	69.8	69.8	69.4	68.9	68.4	68.4
15-Dec-05	0:06:00	900	60.2	80.2	51.6	62.0	59.6	57.8	56.5	54.3	53.0
15-Dec-05	0:21:00	900	58.8	78.1	51.7	62.0	59.0	57.0	55.8	53.8	52.4
15-Dec-05	0:36:00	900	60.9	79.5	52.9	68.5	61.8	58.6	57.2	55.2	53.5
15-Dec-05	0:51:00	900	56.5	63.2	51.5	60.6	58.9	57.3	56.1	53.2	52.0
15-Dec-05	1:06:00	900	61.9	82.5	51.5	63.6	60.5	58.7	57.1	54.3	52.4
15-Dec-05	1:21:00	900	55.9	61.2	50.2	59.2	57.9	56.8	55.5	53.1	50.9
15-Dec-05	1:36:00	900	73.4	96.0	49.2	79.0	59.8	56.3	54.7	52.1	50.5
15-Dec-05	1:51:00	900	55.9	65.0	50.1	60.0	58.3	56.7	55.3	52.6	50.5
15-Dec-05	2:06:00	900	55.9	77.0	49.7	58.7	56.9	55.5	54.3	52.3	50.7
15-Dec-05	2:21:00	900	71.3	90.2	49.3	83.1	62.8	57.1	55.3	52.6	50.3
15-Dec-05	2:36:00	900	54.1	59.8	47.6	57.8	56.7	55.0	53.5	51.1	48.8
15-Dec-05	2:51:00	900	53.4	64.6	46.8	58.8	56.0	53.9	52.4	49.6	47.7
15-Dec-05	3:06:00	900	56.3	70.9	48.2	65.7	58.4	55.1	53.6	50.5	48.5
15-Dec-05	3:21:00	900	53.0	58.2	48.6	56.0	54.9	53.7	52.7	50.8	49.4
15-Dec-05	3:36:00	900	55.5	73.4	49.4	60.6	57.2	55.6	54.2	51.5	50.1
15-Dec-05	3:51:00	900	54.8	61.5	48.7	59.2	57.3	55.5	54.2	51.4	49.4
15-Dec-05	4:06:00	900	58.3	71.1	51.5	65.3	60.3	58.1	56.8	54.6	52.7
15-Dec-05	4:21:00	900	60.0	75.7	55.7	62.9	61.1	59.9	58.8	57.0	56.0
15-Dec-05	4:36:00	900	62.7	76.5	56.8	67.4	63.9	62.4	61.2	59.0	57.3
15-Dec-05	4:51:00	900	64.4	82.2	58.7	69.1	64.2	63.1	62.2	60.6	59.3
15-Dec-05	5:06:00	900	65.5	84.2	59.5	74.6	66.0	63.4	62.2	60.5	59.5
15-Dec-05	5:21:00	900	65.3	82.5	59.7	73.1	65.5	63.8	62.9	61.4	60.2
15-Dec-05	5:36:00	900	67.0	82.4	61.5	74.3	67.1	65.3	64.4	63.1	62.1
15-Dec-05	5:51:00	900	66.5	82.3	62.2	73.0	66.9	65.7	64.9	63.6	62.7
15-Dec-05	6:06:00	900	67.4	82.1	60.3	77.5	67.0	65.3	63.9	62.2	61.1
15-Dec-05	6:21:00	900	66.1	84.8	60.2	74.6	66.3	64.0	63.0	61.4	60.3
15-Dec-05	6:36:00	900	67.4	85.1	59.7	78.3	66.4	63.9	62.9	61.2	60.1
15-Dec-05	6:51:00	900	66.2	82.6	61.3	71.8	65.9	64.8	63.9	62.9	61.9
15-Dec-05	7:06:00	900	67.8	86.4	60.9	77.7	66.5	64.7	63.7	62.2	61.2
15-Dec-05	7:21:00	900	67.7	83.4	60.5	78.5	66.6	64.8	64.0	62.2	61.1
15-Dec-05	7:36:00	900	67.0	82.7	60.2	75.1	67.5	64.6	63.4	61.6	60.3
15-Dec-05	7:51:00	900	66.3	82.4	59.9	73.8	66.0	64.0	63.3	61.8	60.7
15-Dec-05	8:06:00	900	67.4	83.4	60.0	77.3	66.9	65.6	64.5	62.4	60.9
15-Dec-05	8:21:00	900	66.8	82.6	60.9	74.4	66.9	65.7	64.7	63.0	61.5
15-Dec-05	8:36:00	900	66.8	82.2	61.0	74.4	67.2	65.4	64.4	62.8	61.6
15-Dec-05	8:51:00	900	66.2	82.7	58.7	75.7	66.3	63.8	62.4	60.3	59.1
15-Dec-05	9:06:00	900	64.9	82.7	57.5	71.3	65.3	62.7	61.5	59.4	58.1
15-Dec-05	9:21:00	900	64.8	82.5	58.1	72.2	65.3	63.0	61.7	59.6	58.6
15-Dec-05	9:36:00	900	65.1	83.0	58.3	71.5	64.8	62.8	61.8	60.2	59.1
15-Dec-05	9:51:00	900	64.7	82.6	58.5	71.0	64.5	63.0	61.9	60.2	59.0
15-Dec-05	10:06:00	900	64.5	81.7	58.7	69.9	65.1	63.3	62.1	60.4	59.1
15-Dec-05	10:21:00	900	64.9	82.0	59.0	70.9	64.9	63.6	62.6	60.8	59.5
15-Dec-05	10:36:00	900	66.1	82.6	59.4	71.5	66.8	65.5	64.4	62.2	59.8
15-Dec-05	10:51:00	900	65.7	81.3	61.1	67.6	66.3	65.3	64.5	63.2	62.1
15-Dec-05	11:06:00	900	66.8	85.9	61.8	72.8	66.9	65.6	64.5	63.0	62.1
15-Dec-05	11:21:00	900	67.2	85.0	61.7	72.9	67.5	65.8	64.8	63.3	62.2
15-Dec-05	11:36:00	301.6	64.9	71.7	61.5	68.7	66.7	65.4	64.5	62.7	62.0
15-Dec-05	11:43:00	4.3	93.8	93.8	93.7	93.8	93.8	93.8	93.7	93.7	93.7
15-Dec-05	11:56:46	13.7	72.1	80.9	62.8	80.2	77.2	72.8	67.8	64.5	63.3

SBRP AFC Ambient Survey - Spectral Samples

Location AFC-1 - Apt D at 890 Colorado St.

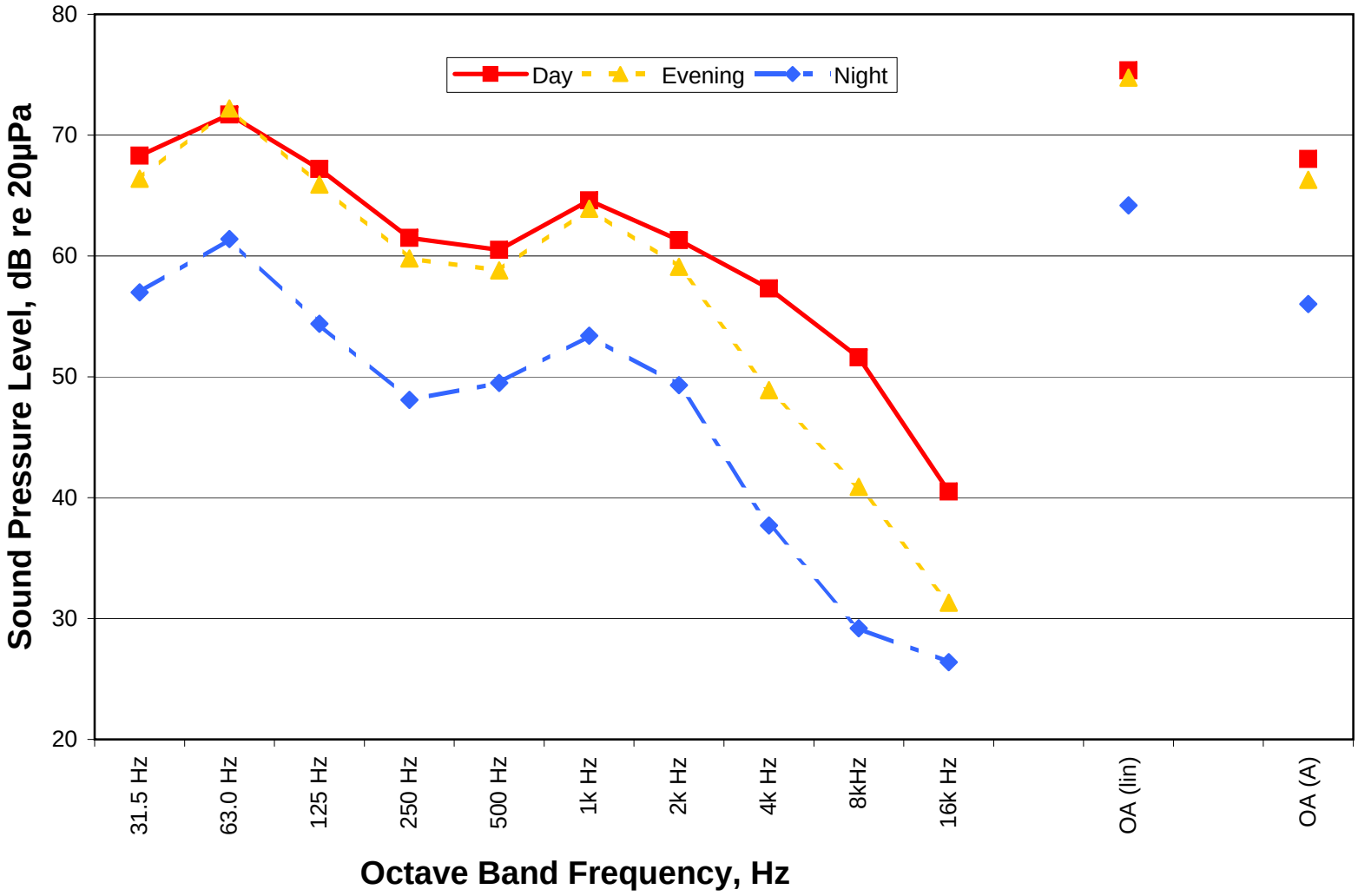

Figure 8.5a-6

Location	**AFC-1**
Brief Description	Colorado Street Apts
Full Description	West end of Unit D at 890 Colorado Street (Sierra Creek Apartments); 100' north of L Street sidewalk; 55' east of centerline of nearest rail line; on roof of attached laundry room*; near B&V location NML 2 of May 2004*
Importance	Closest multi-family land use (and near previous location used by Black & Veatch)
Long-term Monitoring Period	12/14/05 09:50 to 12/15/05 11:44
General Noise Environment	Traffic noise on I-5, L Street, and the end of Industrial Blvd., plus frequent, but short-lived commuter and freight train pass-bys.
Latitude Longitude	N 32° 36.955' W 117° 05.359'
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking west at microphone positions, with rail lines beyond

Looking through short-term microphone position at proximate rail lines

Looking southwest from microphone position, through intersection of Industrial and L, toward SBPP and SBEF sites

Looking northeast at microphone position, through intersection of Industrial and L

LOCATION AFC-2

AFC-2	Brentwood Trailer Park, near I-5 side; at south end of Unit F-8 (178' to park fenceline plus ~35' to edge of pavement on I-5)	Nearest single-family residential area and a representative location in trailer park on the I-5 side

The Location AFC-2 time-history record is very similar to the Location 1 record with very stable and consistent noise levels during the daytime hours (between 5 a.m. and 9 p.m.). This record and the field observation notes show that these results are due to the total dominance of traffic noise from the I-5 freeway. Residual (background) noise levels (L_{90}) during these hours were uniformly in the range of 60 to 65 dBA, while the hourly L_{eq} values in this period were tightly clustered between 63 and 67 dBA; both owing to the dominance of the steady and continuous flow of cars that were observed at all hours of the day and night on Interstate-5 (the field notes show an estimated vehicle flow of 40 to 50 cars per minute in each direction at 9 p.m.). Given that this is a single-family residential land use area, these daytime L_{eq} levels are 8 to 12 dB above the Chula Vista Noise Ordinance daytime limit for this land use type. As the volume of traffic on the I-5 subsided overnight (estimated to be approximately 15 cars per minute in each direction at 3:45 a.m.), the noise levels decreased such that the typical, late-night L_{90} levels were around 50 to 53 dBA and the associated L_{eq} levels were between 56 and 59 dBA. These L_{eq} values are at least 10 dB over the Chula Vista ordinance at this location; owing to the high noise environment from the freeway flow. Probably due to the distance and intervening houses, the late-night record does not show distinct excursions from the known heavy freight train pass-bys (that were noted at other measurement locations).

This Location AFC-2 spectral record indicates that the noise environment is being controlled by a common source throughout the day and night, given the very similar shapes of the curves. There is only a relatively narrow range of magnitude changes between these curves, owing to a simple change in the overall intensity of the common source. From field observations at this location, the dominant source is nearly exclusively traffic noise from the I-5 freeway, with only minor contributions from wildlife and rustling of vegetation during the observed mild winds. The only significant parameter that is changing over the course of a typical 24-hour period at this location is the amount of cars flowing on the freeway.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-2 - Brentwood Trailer Park by I-5 (Unit F-8)

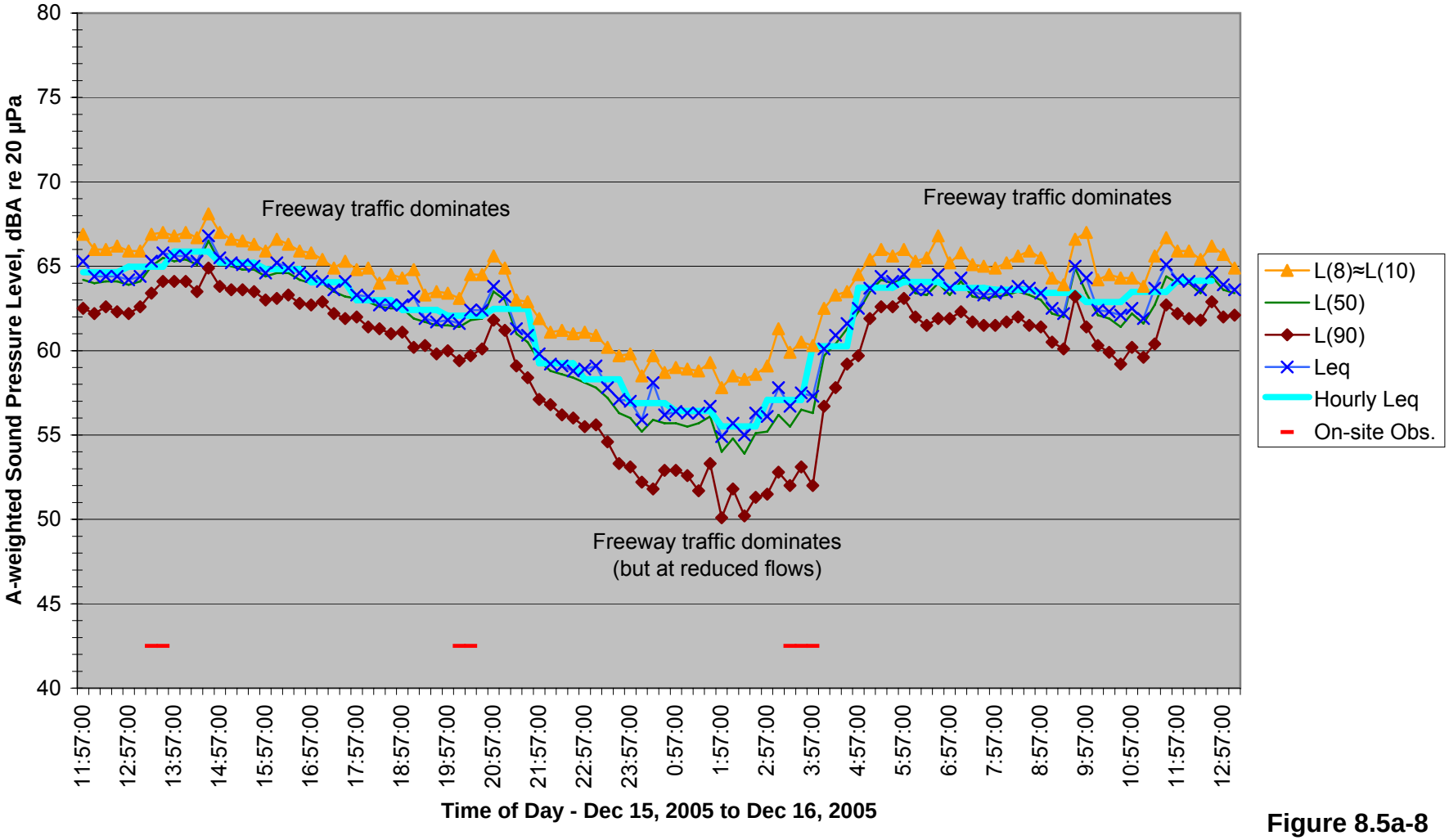

Figure 8.5a-8

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-2**
Description: **West end of Brentwood Trailer Park by I-5, at Unit F-8**

Date	Start Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
15-Dec-05	11:36:00	301.6	64.9	71.7	61.5	68.7	66.7	65.4	64.5	62.7	62.0
15-Dec-05	11:43:00	4.3	93.8	93.8	93.7	93.8	93.8	93.8	93.7	93.7	93.7
15-Dec-05	11:56:46	13.7	72.1	80.9	62.8	80.2	77.2	72.8	67.8	64.5	63.3
15-Dec-05	11:57:00	900	65.3	81.1	60.7	71.6	66.9	65.2	64.2	62.5	61.3
15-Dec-05	12:12:00	900	64.4	71.6	59.2	68.2	66.0	64.9	64.0	62.2	60.8
15-Dec-05	12:27:00	900	64.4	69.1	60.7	67.3	66.0	64.9	64.1	62.6	61.3
15-Dec-05	12:42:00	900	64.4	72.6	59.4	67.6	66.2	64.9	64.1	62.3	60.2
15-Dec-05	12:57:00	900	64.2	68.2	58.8	66.8	65.9	64.8	63.9	62.2	60.3
15-Dec-05	13:12:00	900	64.4	69.9	61.2	66.9	65.9	64.9	64.1	62.6	61.6
15-Dec-05	13:27:00	900	65.3	70.6	61.2	67.9	66.9	65.9	65.0	63.4	62.1
15-Dec-05	13:42:00	900	65.8	74.7	62.7	68.4	67.0	66.2	65.5	64.1	63.0
15-Dec-05	13:57:00	900	65.6	76.6	62.8	68.4	66.8	65.9	65.3	64.1	63.1
15-Dec-05	14:12:00	900	65.6	70.4	62.3	67.9	67.0	66.1	65.4	64.1	63.1
15-Dec-05	14:27:00	900	65.3	69.6	62.0	67.6	66.7	65.8	65.1	63.5	62.3
15-Dec-05	14:42:00	900	66.8	77.0	62.5	69.0	68.1	67.3	66.5	64.9	63.1
15-Dec-05	14:57:00	900	65.5	73.0	62.4	68.0	67.0	66.0	65.2	63.8	62.7
15-Dec-05	15:12:00	900	65.2	73.0	61.7	67.6	66.6	65.7	65.0	63.6	62.2
15-Dec-05	15:27:00	900	65.1	72.2	62.3	67.1	66.5	65.6	64.8	63.6	62.9
15-Dec-05	15:42:00	900	65.0	68.2	61.7	67.0	66.3	65.5	64.8	63.5	62.3
15-Dec-05	15:57:00	900	64.6	72.1	61.7	66.9	65.9	65.1	64.4	63.0	62.0
15-Dec-05	16:12:00	900	65.2	73.5	61.5	70.2	66.6	65.4	64.6	63.1	62.1
15-Dec-05	16:27:00	900	64.9	76.3	62.2	67.8	66.3	65.3	64.6	63.3	62.3
15-Dec-05	16:42:00	900	64.6	74.9	61.2	67.5	65.9	64.9	64.2	62.8	61.6
15-Dec-05	16:57:00	900	64.4	71.6	61.4	67.6	65.8	64.8	64.0	62.7	62.0
15-Dec-05	17:12:00	900	64.1	68.4	61.0	65.9	65.4	64.7	64.0	62.9	61.7
15-Dec-05	17:27:00	900	63.6	68.3	61.0	65.8	64.9	64.2	63.5	62.2	61.3
15-Dec-05	17:42:00	900	64.1	76.9	59.9	69.2	65.3	63.9	63.2	61.9	60.5
15-Dec-05	17:57:00	900	63.3	69.5	59.8	65.9	64.8	63.8	63.1	62.0	60.6
15-Dec-05	18:12:00	900	63.2	68.5	60.2	65.9	64.9	63.8	62.9	61.4	60.2
15-Dec-05	18:27:00	900	62.7	66.2	59.9	64.9	64.0	63.3	62.6	61.3	60.3
15-Dec-05	18:42:00	900	62.7	66.2	59.4	65.0	64.5	63.5	62.5	61.0	59.8
15-Dec-05	18:57:00	900	62.7	67.4	59.2	65.5	64.3	63.3	62.5	61.1	60.0
15-Dec-05	19:12:00	900	63.2	75.4	58.8	70.1	64.8	62.9	61.9	60.2	59.1
15-Dec-05	19:27:00	900	61.9	66.2	58.1	64.6	63.3	62.5	61.7	60.3	59.0
15-Dec-05	19:42:00	900	61.7	67.9	57.4	64.5	63.5	62.4	61.5	59.8	58.3
15-Dec-05	19:57:00	900	61.8	66.4	57.9	64.0	63.4	62.4	61.5	60.0	58.5
15-Dec-05	20:12:00	900	61.6	68.8	54.7	64.1	63.1	62.3	61.4	59.4	56.9
15-Dec-05	20:27:00	900	62.4	69.9	57.8	67.0	64.5	62.9	61.8	59.7	58.2
15-Dec-05	20:42:00	900	62.4	68.6	58.4	65.9	64.5	63.1	61.9	60.1	58.6
15-Dec-05	20:57:00	900	63.8	70.9	59.6	66.6	65.6	64.5	63.5	61.8	60.2
15-Dec-05	21:12:00	900	63.2	67.3	59.0	65.7	64.9	63.9	63.0	61.2	59.6
15-Dec-05	21:27:00	900	61.3	67.7	57.2	64.4	63.0	62.0	61.0	59.1	57.5
15-Dec-05	21:42:00	900	60.9	67.9	56.3	64.7	62.9	61.6	60.5	58.4	57.0
15-Dec-05	21:57:00	900	59.8	66.1	53.6	63.5	61.9	60.6	59.4	57.1	55.0
15-Dec-05	22:12:00	900	59.2	67.2	54.8	62.7	61.1	59.8	58.8	56.8	55.4
15-Dec-05	22:27:00	900	59.1	66.8	52.0	62.5	61.2	59.9	58.6	56.2	53.3
15-Dec-05	22:42:00	900	58.8	65.5	52.0	62.2	61.0	59.7	58.4	56.0	53.4
15-Dec-05	22:57:00	900	58.9	68.7	51.2	63.8	61.1	59.5	58.1	55.5	52.5
15-Dec-05	23:12:00	900	59.1	72.5	53.4	64.0	60.9	59.2	57.8	55.6	54.0
15-Dec-05	23:27:00	900	57.8	66.4	50.1	61.9	60.2	58.6	57.2	54.6	51.8
15-Dec-05	23:42:00	900	57.1	67.8	50.0	61.9	59.7	57.9	56.3	53.3	51.0
15-Dec-05	23:57:00	900	57.0	68.1	49.2	61.7	59.8	57.7	56.0	53.1	50.3
16-Dec-05	0:12:00	900	55.9	65.1	45.4	60.4	58.5	56.8	55.2	52.2	47.8
16-Dec-05	0:27:00	900	58.1	76.8	49.2	62.6	59.7	57.6	55.9	51.8	49.6
16-Dec-05	0:42:00	900	56.2	64.3	49.7	60.0	58.7	57.1	55.7	52.9	50.4
16-Dec-05	0:57:00	900	56.4	65.0	50.2	61.1	59.0	57.0	55.7	52.9	50.8
16-Dec-05	1:12:00	900	56.3	65.8	48.1	61.0	58.9	57.1	55.5	52.6	49.6
16-Dec-05	1:27:00	900	56.3	68.9	47.9	60.7	58.8	57.3	55.7	51.7	48.8
16-Dec-05	1:42:00	900	56.7	63.7	50.9	60.9	59.3	57.8	56.1	53.3	51.8

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-2**
Description: **West end of Brentwood Trailer Park by I-5, at Unit F-8**

Date	Start Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
16-Dec-05	1:57:00	900	54.9	63.4	44.8	59.9	57.8	55.8	54.0	50.1	46.7
16-Dec-05	2:12:00	900	55.7	66.3	48.4	60.2	58.5	56.7	54.8	51.8	49.3
16-Dec-05	2:27:00	900	55.0	62.6	47.2	60.1	58.3	56.2	53.9	50.2	48.1
16-Dec-05	2:42:00	900	56.3	71.4	47.8	61.2	58.6	56.7	55.1	51.3	49.0
16-Dec-05	2:57:00	900	56.1	64.8	47.7	61.7	59.1	56.8	55.2	51.5	48.6
16-Dec-05	3:12:00	900	57.8	68.9	50.3	64.1	61.3	58.0	56.2	52.8	51.0
16-Dec-05	3:27:00	900	56.7	67.4	49.0	62.6	59.9	57.4	55.5	52.0	49.9
16-Dec-05	3:42:00	900	57.5	67.1	49.3	62.8	60.5	58.4	56.5	53.1	50.2
16-Dec-05	3:57:00	900	57.3	67.4	46.4	62.2	60.3	58.6	56.3	52.0	47.8
16-Dec-05	4:12:00	900	60.1	66.4	52.0	63.9	62.5	61.0	59.7	56.7	54.0
16-Dec-05	4:27:00	900	60.9	68.6	55.1	65.0	63.3	61.8	60.4	57.8	55.9
16-Dec-05	4:42:00	900	61.6	68.3	56.7	65.3	63.5	62.3	61.3	59.2	57.5
16-Dec-05	4:57:00	900	62.5	67.6	56.9	65.8	64.5	63.4	62.3	59.7	57.8
16-Dec-05	5:12:00	900	63.7	67.6	59.9	66.5	65.4	64.4	63.5	61.9	60.5
16-Dec-05	5:27:00	900	64.4	69.6	61.1	67.1	66.0	64.9	64.2	62.6	61.4
16-Dec-05	5:42:00	900	64.1	68.7	61.3	66.5	65.6	64.7	64.0	62.6	61.7
16-Dec-05	5:57:00	900	64.5	68.7	61.1	67.1	66.0	65.1	64.3	63.1	62.0
16-Dec-05	6:12:00	900	63.6	69.6	58.8	66.5	65.3	64.1	63.4	62.0	60.3
16-Dec-05	6:27:00	900	63.6	68.6	59.7	66.5	65.5	64.2	63.3	61.5	60.3
16-Dec-05	6:42:00	900	64.5	72.6	60.1	67.7	66.8	65.5	64.0	61.9	60.5
16-Dec-05	6:57:00	900	63.7	74.0	59.1	66.6	65.2	64.0	63.3	61.9	60.2
16-Dec-05	7:12:00	900	64.3	75.7	60.5	67.2	65.8	64.8	64.1	62.3	61.1
16-Dec-05	7:27:00	900	63.5	71.2	58.5	66.6	65.1	64.0	63.2	61.7	59.9
16-Dec-05	7:42:00	900	63.3	68.2	59.6	65.9	65.0	63.9	63.1	61.5	60.2
16-Dec-05	7:57:00	900	63.4	70.5	59.3	66.2	64.9	63.9	63.2	61.5	60.2
16-Dec-05	8:12:00	900	63.5	68.8	59.7	66.0	65.2	64.2	63.3	61.7	60.4
16-Dec-05	8:27:00	900	63.8	69.3	59.8	66.7	65.6	64.5	63.5	62.0	60.9
16-Dec-05	8:42:00	900	63.7	68.9	59.2	66.7	65.9	64.7	63.3	61.5	59.7
16-Dec-05	8:57:00	900	63.4	72.8	59.9	66.7	65.5	63.9	63.0	61.4	60.3
16-Dec-05	9:12:00	900	62.5	67.9	59.1	65.8	64.3	63.1	62.2	60.5	59.4
16-Dec-05	9:27:00	900	62.2	67.4	58.4	64.9	63.9	62.9	62.0	60.1	58.7
16-Dec-05	9:42:00	900	65.0	68.5	60.1	67.4	66.6	65.7	64.9	63.2	61.4
16-Dec-05	9:57:00	900	64.3	75.9	58.8	69.0	67.0	64.9	63.4	61.4	59.7
16-Dec-05	10:12:00	900	62.4	68.6	57.6	65.6	64.2	62.9	62.1	60.3	59.0
16-Dec-05	10:27:00	900	62.3	67.7	56.0	65.7	64.5	63.1	61.9	59.9	57.4
16-Dec-05	10:42:00	900	62.1	71.7	56.7	66.8	64.3	62.8	61.4	59.2	57.5
16-Dec-05	10:57:00	900	62.5	69.2	57.7	65.8	64.3	63.2	62.2	60.2	58.6
16-Dec-05	11:12:00	900	61.9	66.9	57.7	64.8	63.8	62.7	61.6	59.6	58.2
16-Dec-05	11:27:00	900	63.7	77.6	57.2	69.3	65.6	64.0	62.7	60.4	58.4
16-Dec-05	11:42:00	900	65.1	77.2	59.7	67.9	66.7	65.6	64.4	62.7	61.2
16-Dec-05	11:57:00	900	64.2	69.8	60.6	67.0	65.9	64.9	64.0	62.2	61.1
16-Dec-05	12:12:00	900	64.1	68.2	60.0	66.8	65.9	65.0	64.0	61.9	60.3
16-Dec-05	12:27:00	900	63.6	69.5	56.8	66.2	65.4	64.3	63.4	61.8	60.2
16-Dec-05	12:42:00	900	64.6	71.3	61.4	67.4	66.2	65.2	64.4	62.9	61.8
16-Dec-05	12:57:00	900	63.9	71.1	60.2	66.7	65.7	64.6	63.6	62.0	60.7
16-Dec-05	13:12:00	900	63.6	71.8	61.0	65.9	64.9	64.1	63.4	62.1	61.1
16-Dec-05	13:27:00	453.4	64.5	71.1	60.8	66.9	66.2	65.1	64.2	62.7	61.4

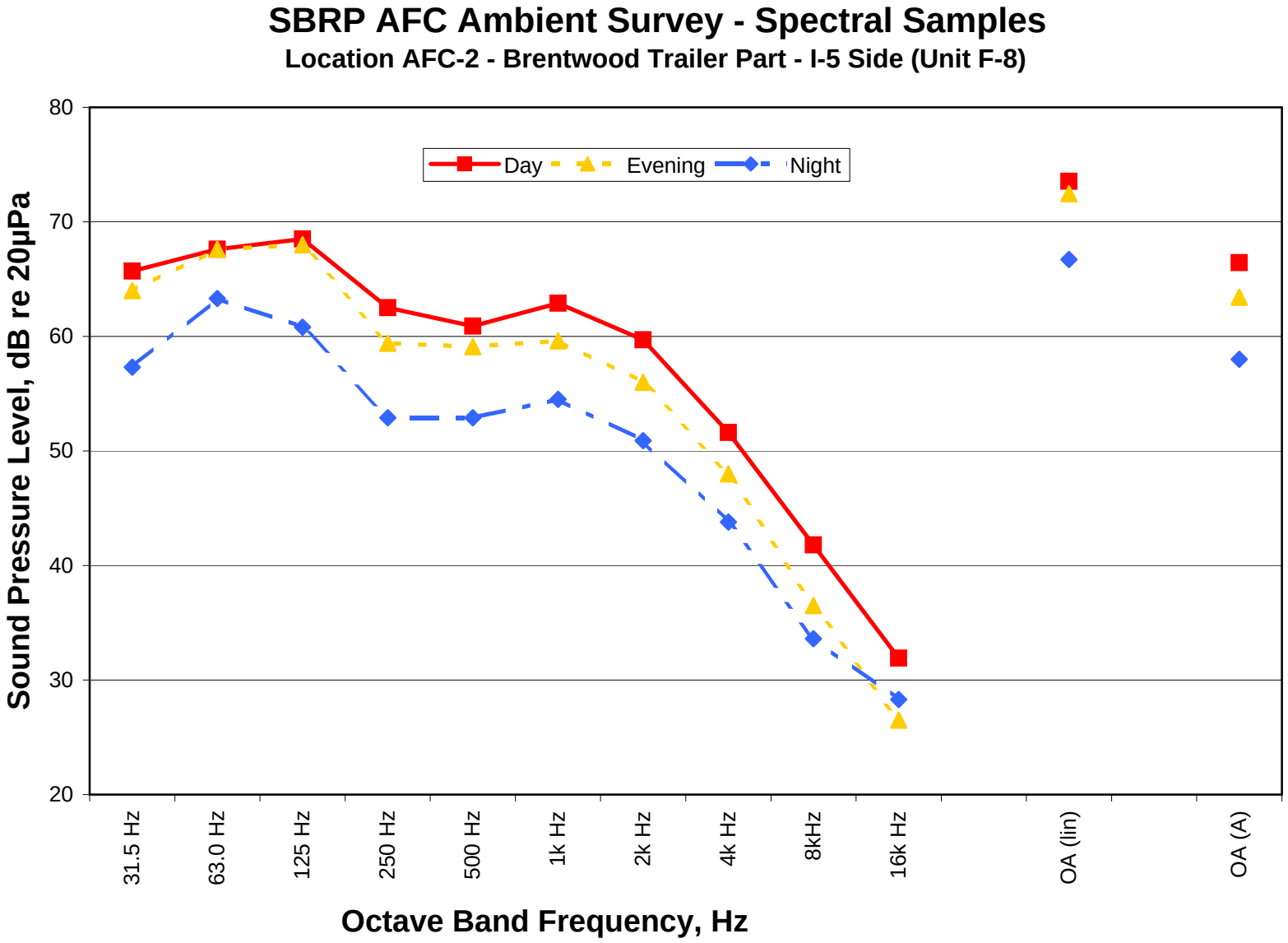
SBRP AFC Ambient Survey - Spectral Samples
Location AFC-2 - Brentwood Trailer Part - I-5 Side (Unit F-8)
Sound Pressure Level, dB re 20µPa
80
70
60
50
40
30
20
Day
Evening
Night
31.5 Hz
63.0 Hz
125 Hz
250 Hz
500 Hz
1k Hz
2k Hz
4k Hz
8kHz
16k Hz
OA (lin)
OA (A)
Octave Band Frequency, Hz

Figure 8.5a-9

Location	**AFC-2**
Brief Description	Brentwood Trailer Park, I-5 side
Full Description	Brentwood Trailer Park, near I-5 side; at south end of Unit F-8 (178' to park fenceline plus ~35' to edge of pavement on I-5) *; in general vicinity to B&V location NML 1 of May 2004*
Importance	Nearest single-family residential area and a representative location in trailer park on the I-5 side
Long-term Monitoring Period	12/15/05 12:00 to 12/16/05 13:35
General Noise Environment	Traffic noise on I-5 totally dominates this location – at all hours of the day and night.
Latitude Longitude	N 32° 36.613' W 117° 05.380'
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking from microphone position westerly toward SBPP & SBEF sites
(I-5 freeway is just beyond row of trees at trailer park fenceline)

Looking NNW from microphone position, toward I-5 freeway (near billboard)

Looking eastward at microphone positions

LOCATION AFC-3

AFC-3	Brentwood Trailer Park, near Industrial Boulevard side; at east end of Unit I-17 (94' to park boundary wall plus ~20' to curb); *in general vicinity to B&V location NML 1 of May 2004*	Nearest single-family residential area and a representative location in trailer park on the Industrial Blvd. side

The Location AFC-3 time-history record shows generally lower levels than at its 'sister' Trailer Park location, due to the increased distance from the I-5 freeway. However, the narrow range of values between the noise metrics at Location AFC-3 again indicates a very stable noise source; predominantly the freeway, with additional, but reduced, contributions from traffic flows on nearby Industrial Blvd. Residual (background) noise levels (L_{90}) between about 5 a.m. and noon were uniformly in the range of 48 to 53 dBA, increasing in the afternoon to between 51 and 58 dBA. The hourly L_{eq} values in the morning hours ranged from 53 to 59 dBA, with several 'spikes' from short-term events (most probably train pass-bys) that drove the 15-minute L_{eq} to 63 dBA. The afternoon L_{eq} record also exhibited many short-term events ('spikes') and the hourly values were typically between 57 and 64 dBA. The measured late-night L_{90} values were tightly spaced between 43 and 45 dBA, while the hourly L_{eq} levels during this time were from 47 to 54 dBA. Again, the L_{eq} levels were substantially increased by short-term events; attributed to freight train pass-bys.

These morning L_{eq} levels flipped between being just under to just over the Chula Vista Noise Limits, while both the afternoon and nighttime noise levels were 2 to 9 dB above the Ordinance limit. While this location is farther away from the I-5 freeway than Location AFC-02, the freeway traffic is still the dominant noise source at all hours of the day and night. A brick wall and an elevation difference between the trailer park and Industrial Blvd. helps to screen out some of the traffic and trolley pass-by noise, but these are still important noise sources at this location.

This Location AFC-3 spectral record indicates that the noise environment is being controlled by a common source throughout the day and night, given the very similar shapes of the curves. There is only a relatively narrow range of magnitude changes between these curves, owing to a simple change in the overall intensity of the common source. From field observations at this location, the dominant source is traffic noise from the I-5 freeway, as well as vehicles on the nearby major arterial surface streets. The only significant parameter that is changing over the course of a typical 24-hour period is the amount of cars traversing those roadways (hence, the levels changes, but the common spectral shapes). Commuter and freight train pass-bys would present a somewhat different spectral record, but these events, although fairly frequent, are very short-lived with respect to the daily noise environment.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-3 - Brentwood Trailer Park near Industrial Blvd., at Unit I-17

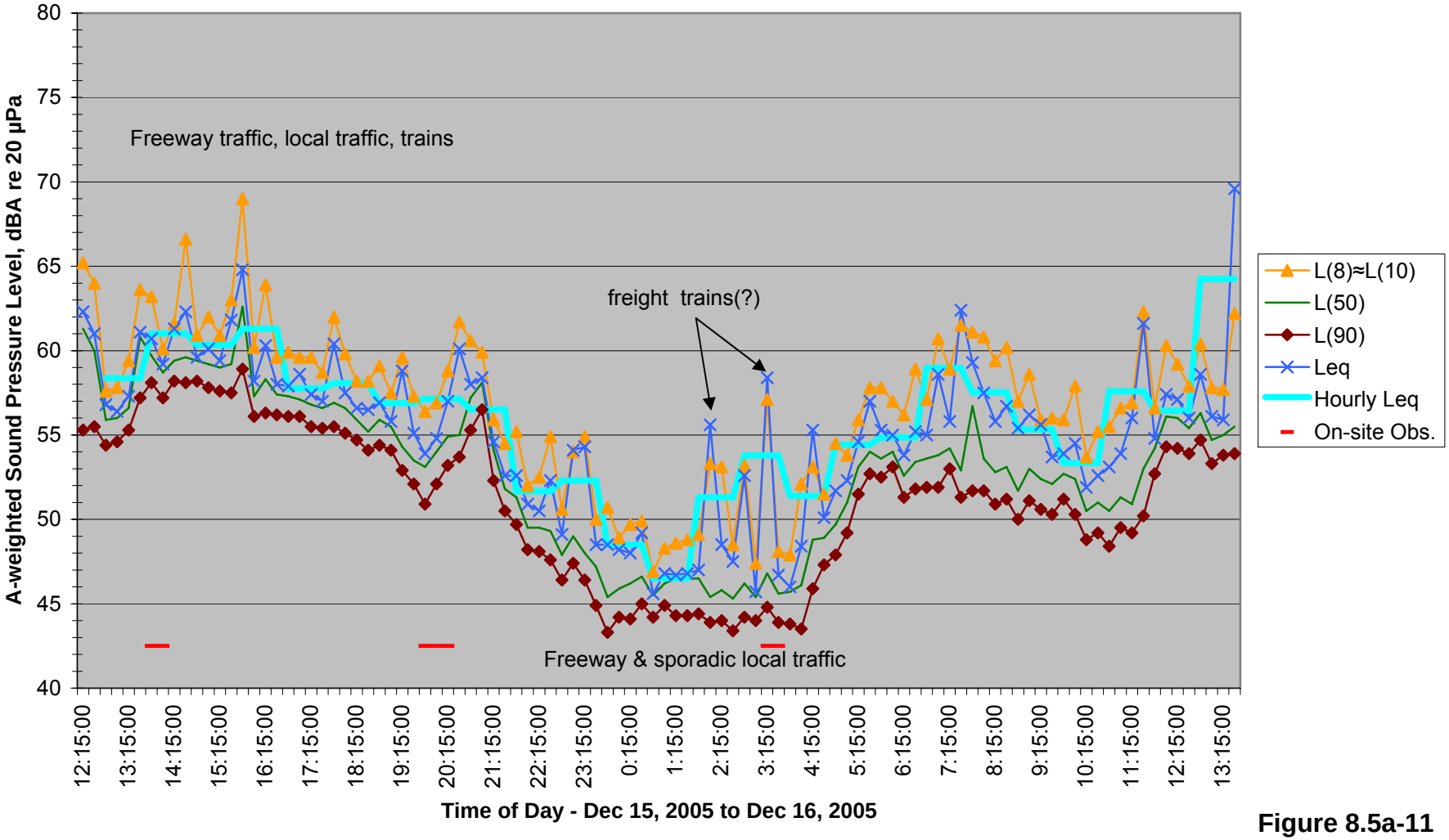

Figure 8.5a-11

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-3**
Description: **Brentwood Trailer Park by Industrial Blvd., at Unit I-17**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
15-Dec-05	12:11:34	205.6	68.5	83.4	60.3	80.2	67.9	65.6	64.5	62.5	60.7
15-Dec-05	12:15:00	900	62.3	76.6	54.2	68.9	65.2	63.3	61.3	55.3	54.2
15-Dec-05	12:30:00	900	61.0	72.5	54.1	65.3	64.0	62.7	60.0	55.5	54.3
15-Dec-05	12:45:00	900	56.8	70.8	53.7	60.6	57.6	56.6	55.9	54.4	53.7
15-Dec-05	13:00:00	900	56.4	66.5	53.5	58.9	57.8	56.9	56.0	54.6	53.9
15-Dec-05	13:15:00	900	57.3	65.4	54.2	61.5	59.4	57.6	56.6	55.3	54.2
15-Dec-05	13:30:00	900	61.1	68.9	54.3	64.8	63.6	62.5	60.8	57.2	55.2
15-Dec-05	13:45:00	900	60.7	69.1	56.7	64.7	63.2	61.5	59.7	58.1	57.1
15-Dec-05	14:00:00	900	59.2	74.0	56.2	61.8	60.1	59.4	58.7	57.2	56.2
15-Dec-05	14:15:00	900	61.3	79.6	57.1	65.2	61.6	60.2	59.4	58.2	57.2
15-Dec-05	14:30:00	900	62.3	71.5	56.4	68.6	66.6	61.6	59.6	58.1	57.1
15-Dec-05	14:45:00	900	59.6	64.2	56.9	61.9	60.9	59.9	59.4	58.2	57.2
15-Dec-05	15:00:00	900	60.1	72.9	56.6	64.9	62.0	60.0	59.2	57.8	56.9
15-Dec-05	15:15:00	900	59.4	68.6	56.6	62.7	60.9	59.8	59.0	57.6	57.0
15-Dec-05	15:30:00	900	61.8	81.1	56.1	65.6	63.0	61.0	59.2	57.5	56.3
15-Dec-05	15:45:00	900	64.8	76.0	55.1	71.1	69.0	64.8	62.6	58.9	56.1
15-Dec-05	16:00:00	900	58.2	69.2	54.8	62.7	60.2	58.4	57.3	56.1	55.1
15-Dec-05	16:15:00	900	60.3	70.9	55.3	66.8	63.9	60.4	58.3	56.3	55.3
15-Dec-05	16:30:00	900	58.0	66.5	55.1	62.5	59.6	58.0	57.4	56.2	55.2
15-Dec-05	16:45:00	900	57.9	65.9	54.6	61.8	59.9	58.3	57.3	56.1	54.8
15-Dec-05	17:00:00	900	58.6	71.5	55.0	65.3	59.6	57.9	57.1	56.1	55.2
15-Dec-05	17:15:00	900	57.4	66.5	54.6	61.3	59.6	57.7	56.8	55.5	54.9
15-Dec-05	17:30:00	900	57.0	62.6	53.9	60.5	58.7	57.3	56.6	55.4	54.7
15-Dec-05	17:45:00	900	60.4	74.8	53.9	70.2	62.0	58.0	56.9	55.5	54.5
15-Dec-05	18:00:00	900	57.5	68.1	54.0	62.0	59.8	57.8	56.6	55.1	54.1
15-Dec-05	18:15:00	900	56.6	68.0	53.8	60.5	58.2	56.8	55.9	54.7	54.0
15-Dec-05	18:30:00	900	56.5	71.5	53.4	61.7	58.2	56.0	55.2	54.1	53.4
15-Dec-05	18:45:00	900	56.9	67.4	53.0	62.0	59.1	56.8	55.9	54.4	53.2
15-Dec-05	19:00:00	900	55.8	60.9	52.6	59.3	57.5	56.3	55.5	54.1	53.1
15-Dec-05	19:15:00	900	58.8	76.6	51.6	68.7	59.6	55.5	54.3	52.9	51.7
15-Dec-05	19:30:00	900	55.1	71.4	50.3	60.6	57.3	54.5	53.5	52.1	50.7
15-Dec-05	19:45:00	900	53.9	62.7	48.9	58.9	56.4	54.4	53.1	50.9	49.3
15-Dec-05	20:00:00	900	54.8	64.3	50.1	59.2	56.9	55.4	54.0	52.1	50.5
15-Dec-05	20:15:00	900	57.0	74.6	51.8	62.8	58.8	56.5	54.9	53.2	52.1
15-Dec-05	20:30:00	900	60.1	74.4	52.7	72.0	61.7	56.4	55.0	53.7	53.0
15-Dec-05	20:45:00	900	58.0	66.2	54.2	62.4	60.6	58.5	57.2	55.3	54.2
15-Dec-05	21:00:00	900	58.4	65.7	54.6	61.2	59.9	59.0	58.1	56.5	55.1
15-Dec-05	21:15:00	900	54.6	66.2	51.0	58.2	55.9	54.8	54.1	52.3	51.1
15-Dec-05	21:30:00	900	52.6	62.0	49.6	57.9	54.5	52.8	51.8	50.5	50.0
15-Dec-05	21:45:00	900	52.6	62.1	48.5	58.5	55.2	52.8	51.3	49.7	49.0
15-Dec-05	22:00:00	900	50.9	67.2	46.9	57.9	52.0	50.3	49.5	48.2	47.2
15-Dec-05	22:15:00	900	50.5	61.1	46.9	56.0	52.5	50.6	49.5	48.1	47.1
15-Dec-05	22:30:00	900	52.3	68.4	46.4	60.2	54.9	50.7	49.3	47.6	46.5
15-Dec-05	22:45:00	900	49.1	61.2	44.9	56.3	50.6	48.8	47.9	46.4	45.3
15-Dec-05	23:00:00	900	54.1	70.9	45.6	65.1	54.0	50.4	49.0	47.4	46.1
15-Dec-05	23:15:00	900	54.3	72.5	45.0	62.1	54.9	49.6	48.0	46.4	45.2
15-Dec-05	23:30:00	900	48.5	60.5	43.3	55.6	50.0	48.2	47.2	44.9	43.5
15-Dec-05	23:45:00	900	48.5	66.4	41.4	55.7	50.7	47.0	45.4	43.3	42.1
16-Dec-05	0:00:00	900	48.2	65.1	42.4	55.4	48.9	47.2	45.9	44.2	42.6
16-Dec-05	0:15:00	900	48.0	63.3	42.2	54.3	49.7	47.6	46.2	44.1	42.9
16-Dec-05	0:30:00	900	49.2	65.1	43.2	57.5	49.9	47.8	46.6	45.0	44.0
16-Dec-05	0:45:00	900	45.6	50.6	42.6	47.8	46.9	46.2	45.5	44.2	43.1
16-Dec-05	1:00:00	900	46.8	56.9	43.4	50.6	48.3	46.9	46.2	44.9	43.6
16-Dec-05	1:15:00	900	46.7	50.6	42.2	49.7	48.6	47.5	46.5	44.3	42.8
16-Dec-05	1:30:00	900	46.8	52.5	41.8	49.9	48.8	47.7	46.5	44.3	42.4
16-Dec-05	1:45:00	900	47.0	52.4	42.7	50.1	49.1	47.8	46.5	44.4	43.1

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-3**
Description: **Brentwood Trailer Park by Industrial Blvd., at Unit I-17**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
16-Dec-05	2:00:00	900	55.6	79.0	41.8	63.7	53.3	46.5	45.4	43.9	42.4
16-Dec-05	2:15:00	900	48.5	57.2	42.5	55.5	53.1	48.4	45.8	44.0	43.0
16-Dec-05	2:30:00	900	47.5	60.9	41.6	55.9	48.5	46.6	45.3	43.4	42.0
16-Dec-05	2:45:00	900	52.6	76.5	41.8	60.3	53.2	47.7	46.2	44.2	43.0
16-Dec-05	3:00:00	900	45.7	51.7	42.4	48.7	47.4	46.3	45.4	44.0	42.8
16-Dec-05	3:15:00	900	58.4	76.5	42.5	69.7	57.1	48.9	46.8	44.8	43.2
16-Dec-05	3:30:00	900	46.7	61.7	41.9	51.1	48.1	46.7	45.6	43.9	42.6
16-Dec-05	3:45:00	900	46.0	52.6	42.6	49.1	47.9	46.7	45.7	43.8	42.6
16-Dec-05	4:00:00	900	48.4	65.6	41.9	53.9	52.1	47.6	46.1	43.5	42.2
16-Dec-05	4:15:00	900	55.3	81.0	43.9	59.1	53.1	50.0	48.8	45.9	44.2
16-Dec-05	4:30:00	900	50.1	63.1	45.7	54.5	51.5	49.9	48.9	47.3	46.2
16-Dec-05	4:45:00	900	51.7	63.5	46.2	59.7	54.5	51.0	49.7	47.9	47.0
16-Dec-05	5:00:00	900	52.3	62.9	48.0	59.5	53.8	52.1	51.0	49.2	48.1
16-Dec-05	5:15:00	900	54.6	66.3	50.5	62.4	55.9	53.9	53.1	51.5	50.5
16-Dec-05	5:30:00	900	57.0	76.7	51.9	62.1	57.8	54.9	54.0	52.7	52.1
16-Dec-05	5:45:00	900	55.3	72.8	52.0	61.5	57.8	54.4	53.6	52.5	52.1
16-Dec-05	6:00:00	900	55.0	66.9	52.2	61.0	57.0	54.8	54.0	53.1	52.2
16-Dec-05	6:15:00	900	53.8	64.1	50.0	60.1	56.2	53.6	52.6	51.3	50.5
16-Dec-05	6:30:00	900	55.2	65.3	50.7	62.0	58.9	54.9	53.4	51.8	50.7
16-Dec-05	6:45:00	900	55.0	67.2	50.8	61.6	57.1	54.8	53.6	51.9	51.0
16-Dec-05	7:00:00	900	58.6	76.3	50.9	66.5	60.7	56.6	53.8	51.9	51.1
16-Dec-05	7:15:00	900	55.8	66.5	51.8	62.4	58.9	55.3	54.2	53.0	52.1
16-Dec-05	7:30:00	900	62.4	78.6	50.6	75.9	61.5	54.5	52.9	51.3	50.6
16-Dec-05	7:45:00	900	59.3	80.6	49.8	63.4	61.1	58.4	56.7	51.7	50.2
16-Dec-05	8:00:00	900	57.5	73.1	50.8	65.3	60.8	56.3	53.6	51.7	51.0
16-Dec-05	8:15:00	900	55.8	70.5	49.4	62.8	59.4	55.0	52.8	50.9	49.8
16-Dec-05	8:30:00	900	56.7	72.3	49.9	64.7	60.2	55.7	53.1	51.2	50.2
16-Dec-05	8:45:00	900	55.4	74.9	48.5	62.1	57.0	52.9	51.7	50.0	48.6
16-Dec-05	9:00:00	900	56.2	76.6	49.8	62.4	58.6	54.8	53.0	51.1	50.1
16-Dec-05	9:15:00	900	55.6	75.8	49.2	60.6	55.9	53.7	52.4	50.6	49.3
16-Dec-05	9:30:00	900	53.7	66.6	48.6	60.4	56.0	53.3	52.1	50.3	49.1
16-Dec-05	9:45:00	900	53.9	65.7	50.2	60.4	55.9	53.7	52.7	51.2	50.2
16-Dec-05	10:00:00	900	54.5	67.1	48.4	61.7	57.9	54.1	52.4	50.3	49.0
16-Dec-05	10:15:00	900	51.9	68.1	47.5	57.5	53.7	51.7	50.5	48.8	47.8
16-Dec-05	10:30:00	900	52.6	64.6	47.6	59.8	55.2	52.5	51.0	49.2	48.1
16-Dec-05	10:45:00	900	53.1	71.8	46.9	60.7	55.5	52.5	50.5	48.4	47.2
16-Dec-05	11:00:00	900	53.9	72.0	47.7	61.2	56.6	52.4	51.3	49.5	48.1
16-Dec-05	11:15:00	900	56.0	79.5	47.5	62.8	56.9	52.5	50.9	49.2	47.9
16-Dec-05	11:30:00	900	61.6	82.8	48.8	72.6	62.3	55.5	53.0	50.2	49.1
16-Dec-05	11:45:00	900	54.8	66.8	51.9	58.9	56.6	55.2	54.2	52.7	52.1
16-Dec-05	12:00:00	900	57.4	65.9	52.8	63.6	60.3	57.6	56.1	54.3	53.3
16-Dec-05	12:15:00	900	57.1	68.7	53.0	62.9	59.2	57.4	56.0	54.2	53.1
16-Dec-05	12:30:00	900	56.0	62.1	53.0	60.2	57.9	56.4	55.4	53.9	53.1
16-Dec-05	12:45:00	900	58.6	75.5	53.6	65.0	60.4	57.6	56.3	54.7	54.0
16-Dec-05	13:00:00	900	56.1	69.4	52.1	62.2	57.8	55.7	54.7	53.3	52.2
16-Dec-05	13:15:00	900	55.9	66.3	52.8	60.7	57.7	55.9	55.0	53.8	53.0
16-Dec-05	13:30:00	900	69.6	89.4	52.1	82.1	62.2	56.9	55.5	53.9	53.0
16-Dec-05	13:45:00	15.4	54.7	56.3	53.2	56.1	55.8	55.3	54.6	53.4	53.2

SBRP AFC Ambient Survey - Spectral Samples

Location AFC-3 - Brentwood Trailer Part - Industrial Blvd. Side (Unit I-17)

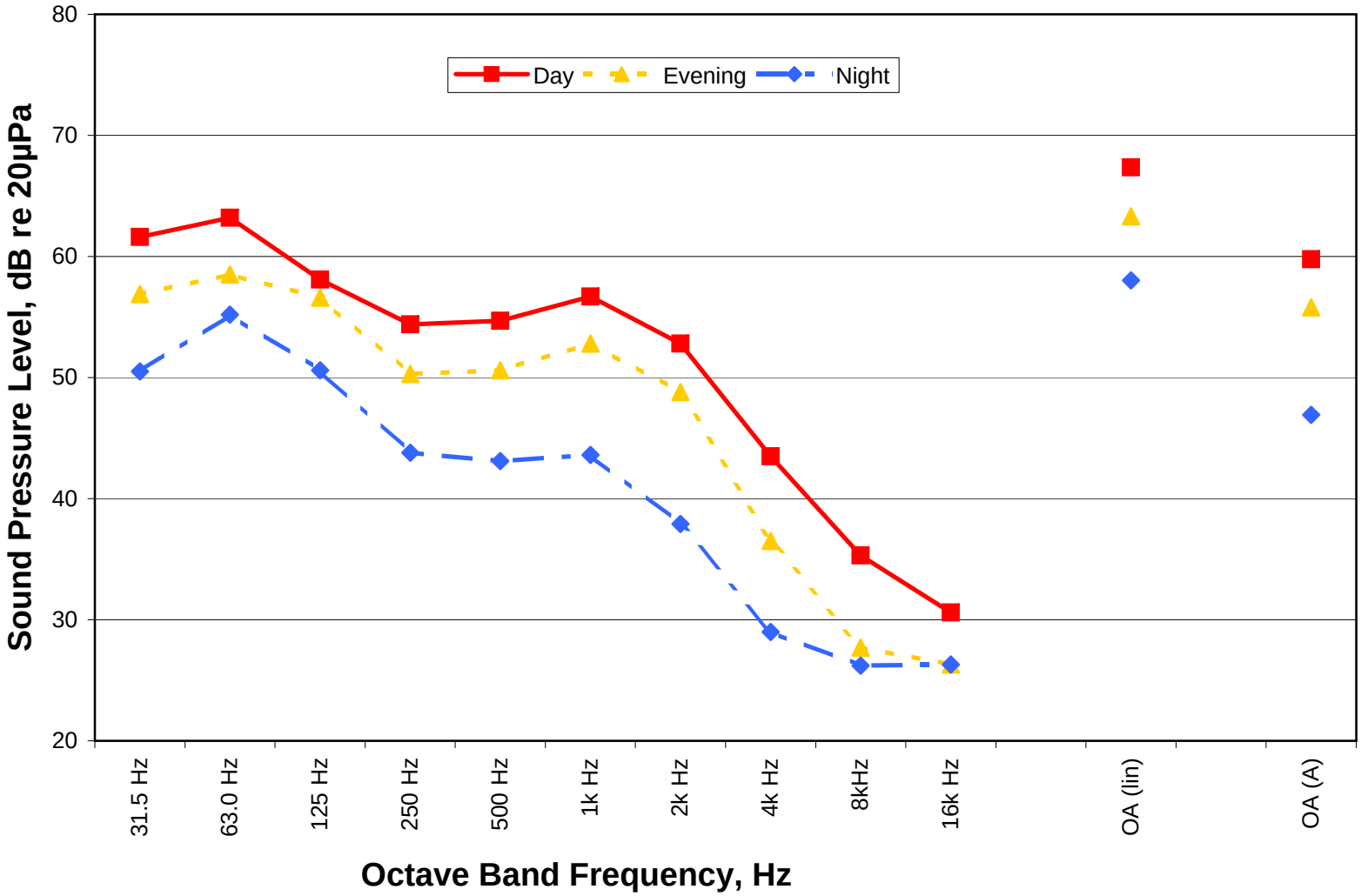

Figure 8.5a-12

Location	**AFC-3**
Brief Description	Brentwood Trailer Park, Industrial Blvd side
Full Description	Brentwood Trailer Park, near Industrial Boulevard side; at east end of Unit I-17 (94' to park boundary wall plus ~20' to curb); *in general vicinity to B&V location NML 1 of May 2004*
Importance	Nearest single-family residential area and a representative location in trailer park on the Industrial Blvd. side
Long-term Monitoring Period	12/15/05 12:12 to 12/16/05 13:45
General Noise Environment	Traffic noise on I-5, as well as on Industrial Blvd., with some influence from the frequent, but short-lived commuter and freight train pass-bys.
Latitude Longitude	N 32° 36.584’ W 117° 05.300’
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking eastward to boundary block wall (with Industrial Blvd beyond)

Looking northwest at microphone position

Looking westerly; generally toward SBPP site

LOCATION AFC-4

AFC-4	West property boundary of Harborside Elementary School; 85' south of Naples Street curb	Closest school

The time-history record for Location AFC-4 shows wider variations between the depicted noise level metrics; an indication of varying noise source durations. Field notes show that there were a large collection of noise sources at this location, including the I-5 freeway (nearly always the dominant source), traffic on Industrial Boulevard and Naples Street, train pass-bys, construction noise across Industrial Boulevard, and aircraft overflights (military, commercial, and general aviation).

Residual (background) noise levels (L_{90}) between about 5 a.m. and noon varied between 48 and 54 dBA,, while the hourly L_{eq} values in this period were tightly clustered between 56 and 61 dBA. Afternoon L_{90} and hourly L_{eq} values ranged from 56 to 61 dBA and from 61 to 66 dBA, respectively. Evening and nighttime L_{90} levels steadily decreased after about 9 p.m., settling to a range between 43 and 46 dBA, which was driven primarily by traffic noise from the freeway. The L_{eq} levels over the same period were more volatile; varying between 49 and 62 dBA with the latter levels being forced upward by late-night freight train movements (e.g. a freight train locomotive pair passed by at 02:59:30 with crossing bells staying on for an extended time). These late-night 'spikes' in the noise level history caused L_{eq} levels that were comparable to the noise environment during the busy afternoon hours. Fortunately, this location is not a residential use and has no nighttime occupants.

The Location AFC-4 spectral record shows generally similarly shaped spectra, but there are variations across the 24-hour period. This also indicates a changing mix of contributions from different sources throughout the day, evening, and nighttime periods. That said, though, the limited differences in the overall, A-wtd noise levels (i.e. 59 to 64 dBA) shows that this location can experience fairly noisy conditions at all times of the day and night; depending on what mix of activities or sources are present.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-4 - West property line of Harborside Elementary School

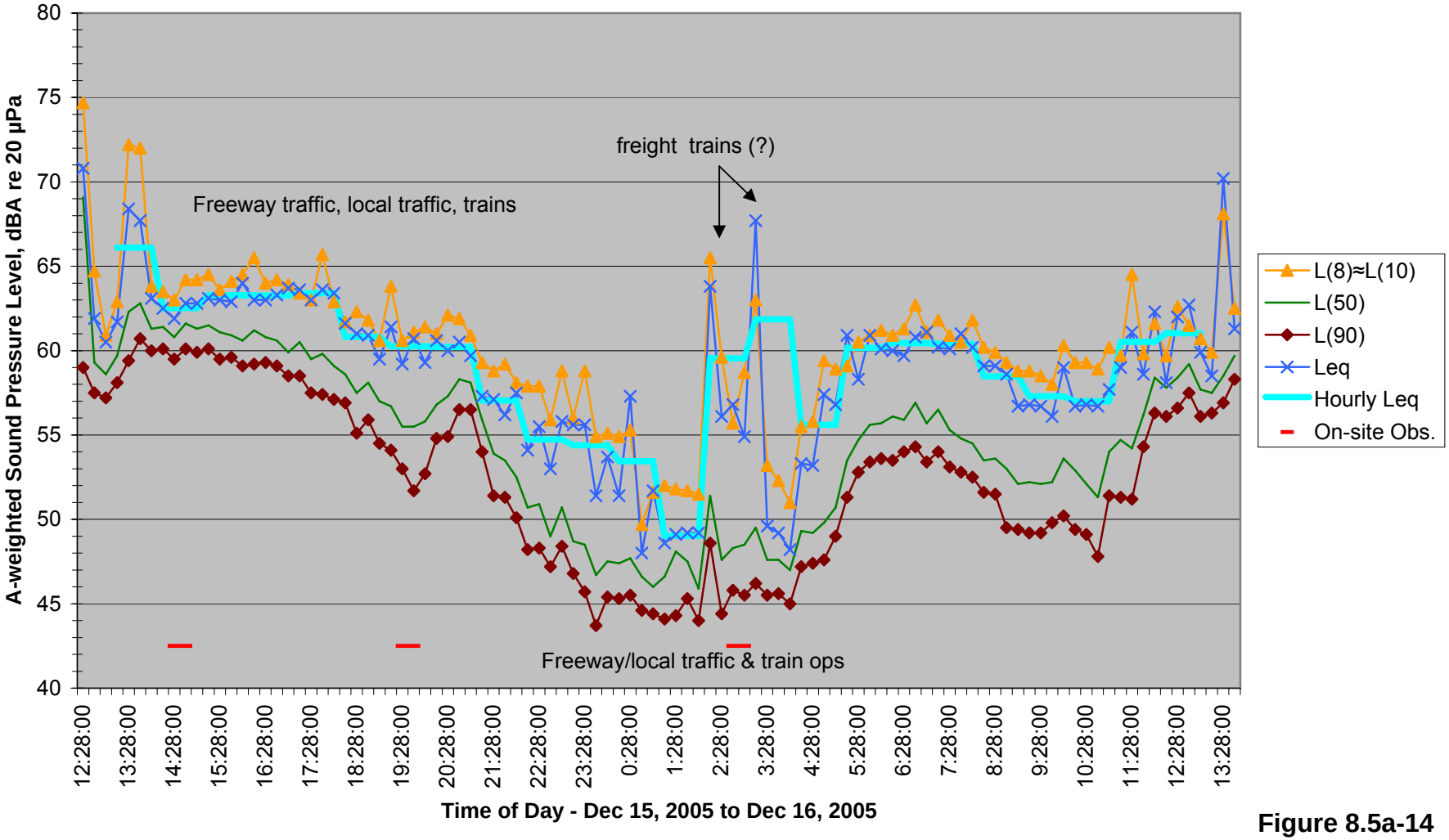

Figure 8.5a-14

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-4**
Description: **West property line of Harborside Elementary School**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
15-Dec-05	12:26:33	8	92.3	92.6	92.2	92.6	92.6	92.6	92.5	92.2	92.2
15-Dec-05	12:26:54	5.6	92.4	92.6	92.3	92.6	92.6	92.6	92.5	92.3	92.3
15-Dec-05	12:27:16	43.1	62.7	69.3	56.9	67.9	66.5	63.8	60.9	58.2	57.1
15-Dec-05	12:28:00	900	70.8	80.4	57.4	75.9	74.7	73.3	69.1	59.0	57.5
15-Dec-05	12:43:00	900	61.9	75.3	56.1	69.8	64.7	61.0	59.3	57.5	56.4
15-Dec-05	12:58:00	900	60.5	79.5	55.3	64.0	60.9	59.4	58.6	57.2	56.1
15-Dec-05	13:13:00	900	61.7	75.1	56.0	69.4	62.9	60.9	59.7	58.1	57.0
15-Dec-05	13:28:00	900	68.4	78.5	57.2	73.6	72.2	70.9	62.3	59.4	57.9
15-Dec-05	13:43:00	900	67.7	76.8	59.5	73.6	72.0	70.2	62.8	60.7	60.0
15-Dec-05	13:58:00	900	63.1	79.8	58.9	70.3	63.8	62.2	61.3	60.0	59.1
15-Dec-05	14:13:00	900	62.5	76.9	59.1	65.4	63.5	62.1	61.4	60.1	59.2
15-Dec-05	14:28:00	900	61.9	74.3	58.6	66.4	63.0	61.8	60.8	59.5	58.6
15-Dec-05	14:43:00	900	62.8	75.1	58.7	68.5	64.2	62.7	61.6	60.1	59.1
15-Dec-05	14:58:00	900	62.8	75.2	58.9	70.1	64.2	62.4	61.3	59.9	59.1
15-Dec-05	15:13:00	900	63.1	75.1	58.6	70.2	64.5	62.6	61.5	60.1	59.1
15-Dec-05	15:28:00	900	63.0	75.4	57.9	71.0	63.6	62.0	61.1	59.5	58.3
15-Dec-05	15:43:00	900	62.9	76.5	58.4	70.8	64.1	61.9	60.9	59.6	59.0
15-Dec-05	15:58:00	900	64.0	81.8	57.9	73.6	64.5	61.9	60.6	59.1	58.1
15-Dec-05	16:13:00	900	63.0	75.8	57.6	69.9	65.5	62.6	61.2	59.2	58.1
15-Dec-05	16:28:00	900	63.0	75.8	58.5	72.1	64.0	62.1	60.8	59.3	58.5
15-Dec-05	16:43:00	900	63.3	80.3	57.7	72.0	64.2	61.9	60.6	59.1	58.0
15-Dec-05	16:58:00	900	63.7	81.4	57.4	73.9	63.9	61.2	59.9	58.5	57.6
15-Dec-05	17:13:00	900	63.6	82.7	57.3	71.8	63.4	61.6	60.5	58.5	57.3
15-Dec-05	17:28:00	900	63.0	80.9	56.5	72.3	63.0	60.9	59.5	57.5	56.5
15-Dec-05	17:43:00	900	63.6	78.8	56.2	74.1	65.7	61.5	59.8	57.4	56.2
15-Dec-05	17:58:00	900	63.4	83.2	55.4	70.8	62.9	60.6	59.1	57.1	55.8
15-Dec-05	18:13:00	900	61.6	78.6	55.1	70.5	61.7	59.9	58.6	56.9	55.6
15-Dec-05	18:28:00	900	61.0	76.4	52.9	71.1	62.3	59.3	57.5	55.1	53.3
15-Dec-05	18:43:00	900	60.9	79.4	54.6	68.1	61.8	59.4	58.1	55.9	55.0
15-Dec-05	18:58:00	900	59.5	76.0	52.5	65.1	60.6	58.5	57.0	54.5	53.1
15-Dec-05	19:13:00	900	61.4	80.3	52.0	70.2	63.8	59.1	56.7	54.1	52.8
15-Dec-05	19:28:00	900	59.2	76.6	51.3	65.8	60.6	57.8	55.5	53.0	51.6
15-Dec-05	19:43:00	900	60.7	80.0	49.8	70.0	61.1	57.8	55.5	51.7	50.0
15-Dec-05	19:58:00	900	59.3	75.4	50.8	66.2	61.4	57.8	55.8	52.7	51.1
15-Dec-05	20:13:00	900	60.6	81.4	52.8	65.4	61.0	58.5	56.8	54.8	53.2
15-Dec-05	20:28:00	900	60.0	74.8	52.9	68.8	62.1	59.0	57.3	54.9	53.3
15-Dec-05	20:43:00	900	60.5	75.8	54.2	67.8	61.9	59.8	58.3	56.5	55.2
15-Dec-05	20:58:00	900	59.7	75.6	54.9	63.2	60.9	59.2	58.1	56.5	55.5
15-Dec-05	21:13:00	900	57.3	71.9	52.7	62.2	59.3	57.2	55.9	54.0	53.1
15-Dec-05	21:28:00	900	57.1	74.2	50.2	61.4	58.8	55.9	53.9	51.4	50.3
15-Dec-05	21:43:00	900	56.2	71.4	49.7	64.4	59.2	55.4	53.5	51.3	50.2
15-Dec-05	21:58:00	900	57.5	77.1	48.9	62.0	58.1	54.5	52.5	50.1	49.1
15-Dec-05	22:13:00	900	54.1	70.3	46.8	60.8	57.9	53.9	50.7	48.2	47.1
15-Dec-05	22:28:00	900	55.5	74.6	46.9	61.6	57.9	53.8	50.9	48.3	47.1
15-Dec-05	22:43:00	900	53.0	70.8	45.6	60.3	55.9	51.5	49.0	47.2	46.1
15-Dec-05	22:58:00	900	55.8	73.8	47.2	64.8	58.8	53.0	50.7	48.4	47.3
15-Dec-05	23:13:00	900	55.6	72.1	45.6	66.7	56.0	51.0	48.7	46.8	45.8
15-Dec-05	23:28:00	900	55.6	74.8	43.6	62.3	58.8	51.9	48.5	45.7	44.1
15-Dec-05	23:43:00	900	51.4	69.6	42.4	59.3	54.9	49.4	46.7	43.7	42.4
15-Dec-05	23:58:00	900	53.7	74.2	43.4	59.3	55.1	49.5	47.5	45.4	44.1
16-Dec-05	0:13:00	900	51.4	70.3	42.6	59.1	54.9	49.2	47.4	45.3	43.4
16-Dec-05	0:28:00	900	57.3	81.4	43.8	59.8	55.3	49.4	47.7	45.5	44.4
16-Dec-05	0:43:00	900	48.0	61.0	43.4	54.9	49.7	47.7	46.6	44.6	43.4
16-Dec-05	0:58:00	900	51.7	71.9	43.3	60.2	51.6	47.1	46.0	44.4	43.4
16-Dec-05	1:13:00	900	48.6	61.7	41.7	56.2	52.0	48.1	46.6	44.1	42.6
16-Dec-05	1:28:00	900	49.1	59.0	42.4	54.6	51.8	49.7	48.1	44.3	42.6
16-Dec-05	1:43:00	900	49.2	61.2	43.5	56.5	51.7	48.7	47.5	45.3	44.1
16-Dec-05	1:58:00	900	49.2	63.0	42.4	57.8	51.5	47.5	45.9	44.0	42.7

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-4**
Description: **West property line of Harborside Elementary School**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
16-Dec-05	2:13:00	900	63.8	81.4	46.9	75.3	65.5	58.5	51.4	48.6	47.3
16-Dec-05	2:28:00	900	56.1	72.6	42.1	65.5	59.6	50.3	47.6	44.4	42.5
16-Dec-05	2:43:00	900	56.8	80.7	43.6	66.5	55.7	50.5	48.3	45.8	44.2
16-Dec-05	2:58:00	900	54.9	77.8	42.9	61.5	58.7	50.9	48.5	45.5	43.5
16-Dec-05	3:13:00	900	67.7	87.3	44.0	78.6	63.0	53.1	49.5	46.2	44.5
16-Dec-05	3:28:00	900	49.6	60.6	42.8	56.6	53.2	49.2	47.6	45.5	43.5
16-Dec-05	3:43:00	900	49.2	62.3	43.3	55.0	52.3	49.3	47.6	45.6	44.2
16-Dec-05	3:58:00	900	48.2	58.4	42.4	54.2	51.0	48.4	47.0	45.0	43.1
16-Dec-05	4:13:00	900	53.3	72.4	44.8	59.7	55.5	51.0	49.3	47.2	45.7
16-Dec-05	4:28:00	900	53.2	71.1	46.5	60.8	55.8	50.8	49.2	47.4	46.5
16-Dec-05	4:43:00	900	57.4	74.6	46.1	67.9	59.4	54.7	49.8	47.6	46.6
16-Dec-05	4:58:00	900	56.8	74.2	47.1	63.9	58.9	53.1	50.7	49.0	47.9
16-Dec-05	5:13:00	900	60.9	82.8	49.2	69.3	59.1	55.6	53.5	51.3	49.9
16-Dec-05	5:28:00	900	58.3	74.2	51.5	66.6	60.5	57.5	54.7	52.8	52.0
16-Dec-05	5:43:00	900	60.9	80.5	52.6	69.9	60.9	58.5	55.6	53.4	52.6
16-Dec-05	5:58:00	900	60.1	77.0	52.4	70.4	61.2	58.5	55.7	53.6	52.8
16-Dec-05	6:13:00	900	60.0	76.6	52.4	69.7	60.9	58.4	56.1	53.5	52.4
16-Dec-05	6:28:00	900	59.7	74.6	52.5	69.1	61.3	58.3	55.9	54.0	52.9
16-Dec-05	6:43:00	900	60.8	76.3	52.7	71.1	62.7	59.5	56.9	54.3	53.1
16-Dec-05	6:58:00	900	61.1	79.6	51.3	70.2	61.1	57.7	55.7	53.4	52.1
16-Dec-05	7:13:00	900	60.2	74.1	52.7	70.4	61.8	59.0	56.5	54.0	53.0
16-Dec-05	7:28:00	900	60.1	77.6	51.6	70.4	60.9	57.7	55.3	53.1	52.1
16-Dec-05	7:43:00	900	61.0	82.6	51.6	69.4	60.5	57.4	54.8	52.8	52.0
16-Dec-05	7:58:00	900	60.2	75.3	50.2	71.7	61.8	57.5	54.5	52.5	51.1
16-Dec-05	8:13:00	900	59.1	75.6	50.4	69.8	60.2	56.2	53.5	51.6	51.0
16-Dec-05	8:28:00	900	59.1	77.1	50.2	69.3	59.9	55.9	53.6	51.5	50.3
16-Dec-05	8:43:00	900	58.6	76.0	48.1	69.7	59.3	56.0	53.0	49.5	48.2
16-Dec-05	8:58:00	900	56.7	72.6	47.5	66.0	58.8	54.5	52.1	49.4	48.1
16-Dec-05	9:13:00	900	56.8	73.6	47.4	66.2	58.8	54.8	52.2	49.2	47.4
16-Dec-05	9:28:00	900	56.7	73.6	47.4	65.8	58.5	54.3	52.1	49.2	48.0
16-Dec-05	9:43:00	900	56.1	72.9	48.2	63.2	58.0	54.0	52.2	49.8	48.4
16-Dec-05	9:58:00	900	59.0	80.6	47.8	64.4	60.3	56.7	53.6	50.2	48.2
16-Dec-05	10:13:00	900	56.7	73.5	47.2	62.9	59.3	55.3	52.9	49.4	47.5
16-Dec-05	10:28:00	900	56.8	73.0	47.5	65.8	59.3	54.5	52.1	49.1	47.5
16-Dec-05	10:43:00	900	56.7	74.7	46.0	64.6	58.9	53.9	51.3	47.8	46.4
16-Dec-05	10:58:00	900	57.7	74.7	49.2	64.5	60.2	56.3	54.0	51.4	49.5
16-Dec-05	11:13:00	900	59.0	79.8	48.0	65.9	59.7	56.8	54.7	51.3	48.8
16-Dec-05	11:28:00	900	61.1	78.8	49.0	71.2	64.5	57.6	54.2	51.2	49.5
16-Dec-05	11:43:00	900	58.6	76.6	53.0	62.8	59.8	57.4	56.2	54.3	53.2
16-Dec-05	11:58:00	900	62.3	83.6	54.9	70.7	61.6	59.8	58.4	56.3	55.2
16-Dec-05	12:13:00	900	58.1	68.1	54.0	61.2	59.7	58.7	57.8	56.1	54.8
16-Dec-05	12:28:00	900	62.0	80.5	55.2	70.9	62.6	60.0	58.4	56.6	55.6
16-Dec-05	12:43:00	900	62.7	83.6	54.9	64.9	61.5	60.1	59.2	57.5	56.4
16-Dec-05	12:58:00	900	59.9	74.9	54.2	66.5	60.7	58.8	57.7	56.1	54.8
16-Dec-05	13:13:00	900	58.5	72.1	55.7	62.7	59.9	58.4	57.5	56.3	55.7
16-Dec-05	13:28:00	900	70.2	91.9	55.3	80.6	68.1	60.6	58.5	56.9	55.5
16-Dec-05	13:43:00	900	61.3	77.0	56.6	66.4	62.5	60.7	59.7	58.3	57.1
16-Dec-05	13:58:00	212.2	60.7	71.1	57.8	67.1	62.8	60.5	59.6	58.4	58.0

SBRP AFC Ambient Survey - Spectral Samples

Location AFC-4 - Harborside Elementary School (west fence)

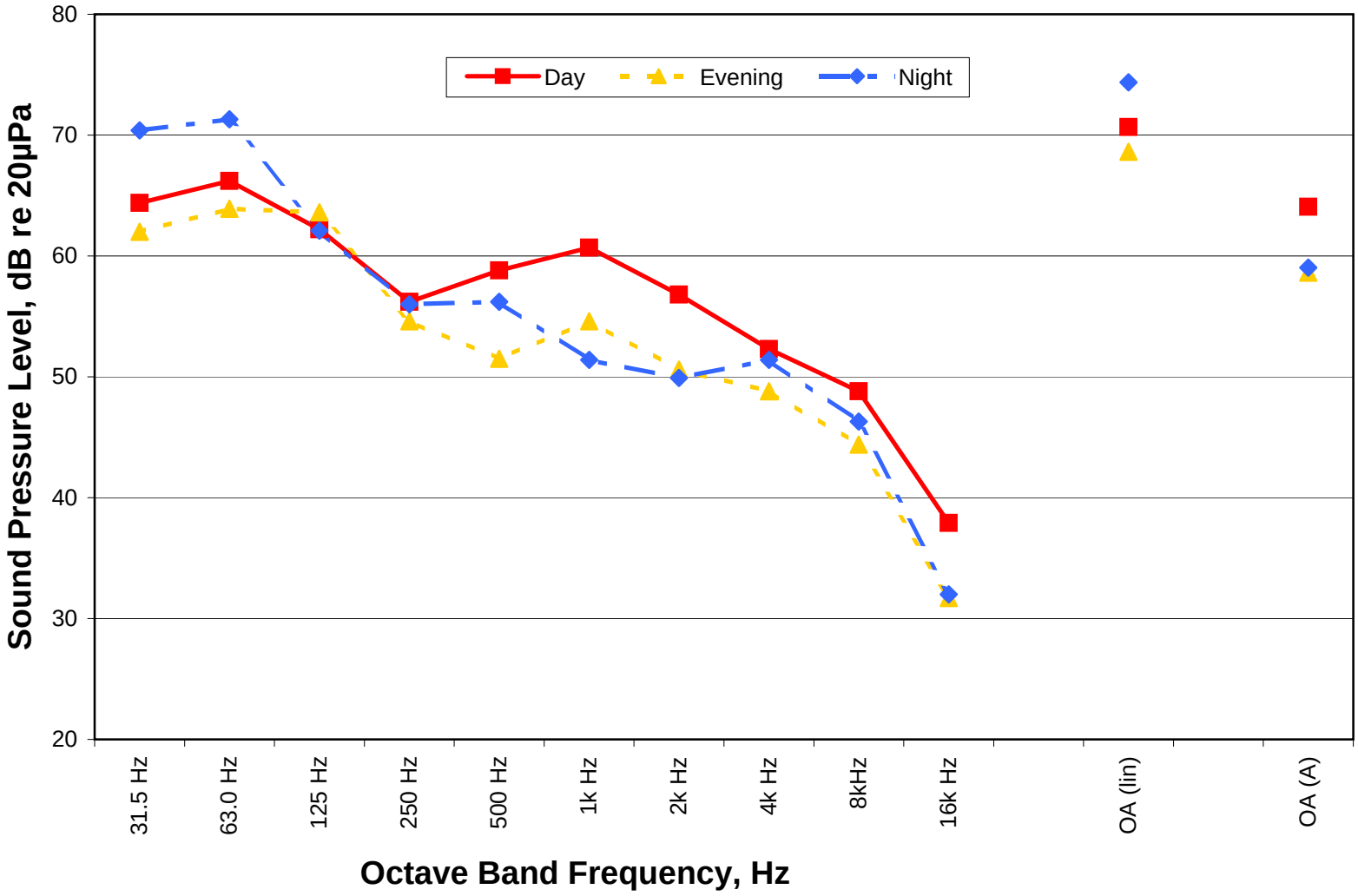

Figure 8.5a-15

Location	**AFC-4**
Brief Description	Harborside Elem. School
Full Description	West property boundary of Harborside Elementary School; 85' south of Naples Street curb
Importance	Closest school
Long-term Monitoring Period	12/15/05 12:29 to 12/16/05 14:01
General Noise Environment	Traffic noise on Industrial Blvd., as well as on I-5, plus frequent, but short-lived commuter and freight train pass-bys (after school hours).
Latitude Longitude	N 32° 36.509' W 117° 05.195'
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking westward from microphone position; toward R/R tracks, Industrial Blvd., and Brentwood Trailer Park (with SBPP & SBEF sites well beyond)

Looking easterly at microphone position; from middle of vacant lot buffer area

Close-up of microphone position (looking NNE toward Naples Street)

LOCATION AFC-5

AFC-5	NW corner of front yard at 889 Stella Street	Closest single-family residential area to the southeast of the site

Although there is some indication of a typical daytime to nighttime diurnal noise level pattern (i.e. higher noise during the worktime hours, then gradually tapering off to a late-night noise floor, then increasing again with the morning rush hour), the Location AFC-5 time-history record shows large variations in sound levels across the 24-hour period. Field observations noted the dominance of the I-5 traffic during most times, with major secondary contributions from local traffic on Bay Boulevard, Palomar Street, and Stella Street, earth-moving equipment at the salt processing facility (across Bay Blvd.), mechanical equipment at adjacent commercial buildings (near the corner of Bay and Palomar), and aircraft overflights. The SBPP plant was noted to be audible (but not contributing to the measured levels) only during the evening hours (observations at 9:17 p.m.) and not discernible either during the daytime or the quietest nighttime hours (probably due to the reduced power production levels overnight).

Daytime residual (background) noise levels (L_{90}) during the daytime and evening hours generally varied between 48 and 56 dBA, with a high of 58 dBA (around 5:30 a.m.). Nighttime residual levels dropped to 42 to 45 dBA. The hourly L_{eq} values during the daytime and evening hours generally varied between 54 and 62 dBA and there were occasional short-event spikes up to 65 dBA (15-minute L_{eq}). With the exception of the one hour at 54 dBA, the daytime $L_{eq\text{-}1hr}$ levels are above the Chula Vista noise limits by as much as 7 dB; mostly due to freeway and local traffic noise. Nighttime hourly L_{eq} values dropped to 49 to 54 dBA, but these are also over the Chula Vista limits by 4 to 9 dB; primarily due to freeway traffic noise.

This noise vs. frequency chart for Location AFC-5 shows similar spectral characteristics for the evening and nighttime hours (most probably traffic flow sources), while the daytime sample shows a pronounced peak in the 500 Hz band. This is attributed to the heavy machinery operating across Bay Boulevard to move salt (see the large salt piles in the photo records). The A-wtd levels measured during these short-term samples varied from 49 dBA (nighttime) to 58 dBA (evening) to 65 dBA (daytime). Rail operations (either train movements or warning bells at the Palomar station) were not noted during on-site observations periods.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-5 - 889 Stella Street, NW corner of lot

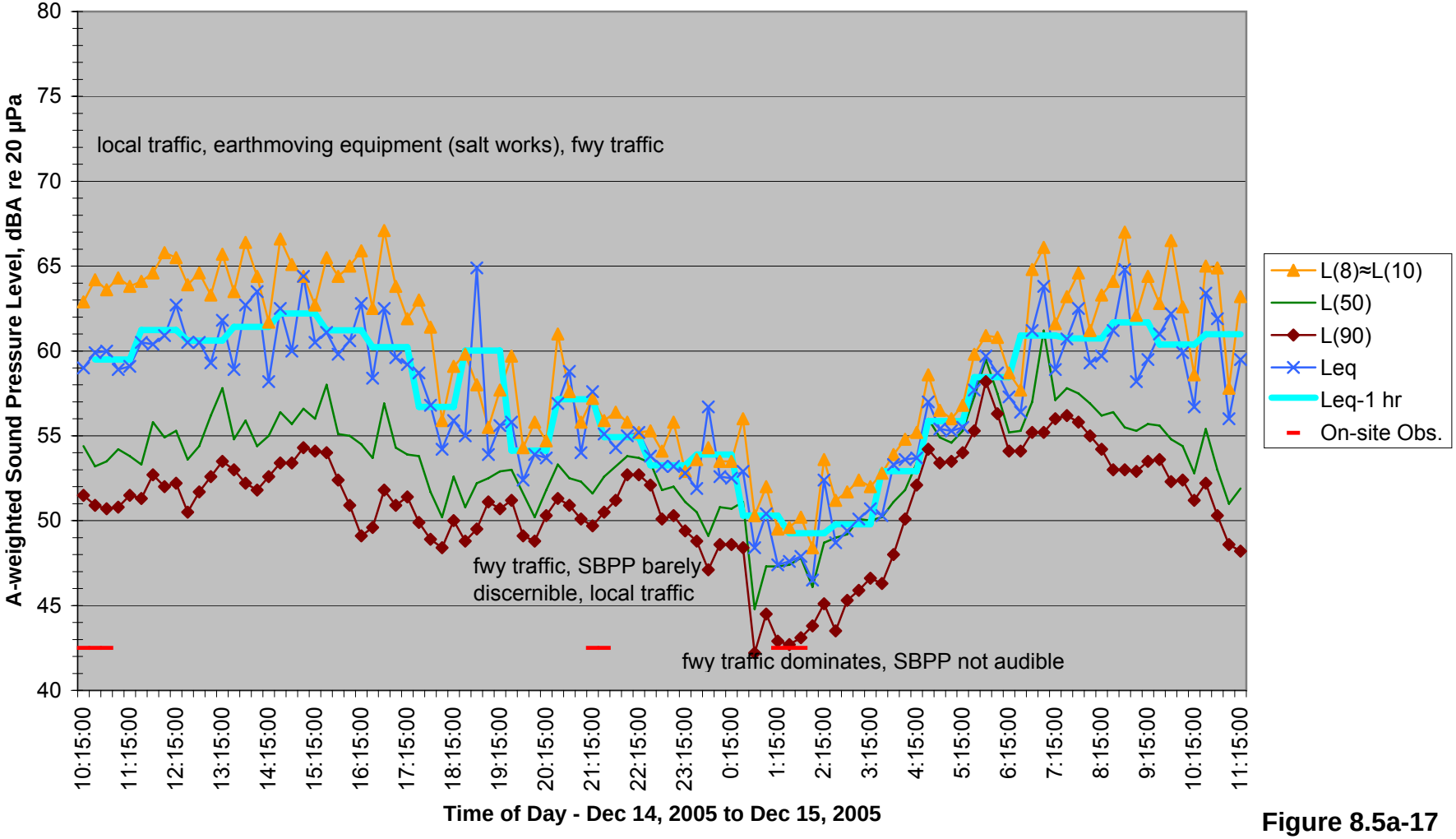

Figure 8.5a-17

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 14 - 15, 2005**
Location: **AFC-5**
Description: **889 Stella Street, NW corner of lot**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
14-Dec-05	10:09:03	356.9	55.9	69.2	48.6	63.8	59.6	54.8	53.1	51.1	49.4
14-Dec-05	10:15:00	900	59.0	76.8	50.1	66.8	62.9	56.9	54.4	51.5	50.3
14-Dec-05	10:30:00	900	59.9	78.0	48.2	68.9	64.2	56.9	53.2	50.9	49.1
14-Dec-05	10:45:00	900	60.0	79.9	48.9	67.0	63.6	56.8	53.5	50.7	49.3
14-Dec-05	11:00:00	900	58.9	71.0	49.5	67.0	64.3	58.3	54.2	50.8	49.6
14-Dec-05	11:15:00	900	59.1	75.8	49.8	67.5	63.8	57.0	53.8	51.5	50.2
14-Dec-05	11:30:00	900	60.5	78.7	50.0	70.3	64.1	56.6	53.3	51.3	50.2
14-Dec-05	11:45:00	900	60.4	76.5	50.3	68.1	64.6	59.8	55.8	52.7	51.1
14-Dec-05	12:00:00	900	60.9	74.5	49.1	70.2	65.8	59.0	54.9	52.0	50.0
14-Dec-05	12:15:00	900	62.7	81.1	50.1	71.3	65.5	59.4	55.3	52.2	51.0
14-Dec-05	12:30:00	900	60.5	77.5	48.9	70.5	63.9	57.2	53.6	50.5	49.2
14-Dec-05	12:45:00	900	60.5	79.1	49.3	69.0	64.6	58.2	54.4	51.7	50.3
14-Dec-05	13:00:00	900	59.3	72.7	50.8	67.1	63.3	59.0	56.2	52.6	51.3
14-Dec-05	13:15:00	900	61.8	76.1	51.3	70.1	65.7	61.8	57.8	53.5	52.0
14-Dec-05	13:30:00	900	58.9	71.6	51.1	68.4	63.5	56.7	54.8	53.0	51.7
14-Dec-05	13:45:00	900	62.7	82.4	49.6	71.7	66.4	60.0	55.9	52.2	50.5
14-Dec-05	14:00:00	900	63.5	86.8	50.0	69.6	64.4	58.5	54.4	51.8	50.5
14-Dec-05	14:15:00	900	58.2	73.8	51.1	66.7	61.7	56.7	55.0	52.6	51.3
14-Dec-05	14:30:00	900	62.5	78.5	51.9	71.3	66.6	60.5	56.4	53.4	52.3
14-Dec-05	14:45:00	900	60.0	72.9	51.7	68.6	65.1	58.2	55.7	53.4	52.2
14-Dec-05	15:00:00	900	64.4	86.1	52.8	71.2	64.4	58.7	56.6	54.3	53.2
14-Dec-05	15:15:00	900	60.5	78.7	52.7	67.6	62.7	57.8	56.0	54.1	53.0
14-Dec-05	15:30:00	900	61.1	73.0	51.4	68.8	65.5	61.1	58.0	54.0	52.1
14-Dec-05	15:45:00	900	59.8	73.3	50.7	68.1	64.4	59.5	55.1	52.4	51.2
14-Dec-05	16:00:00	900	60.6	76.3	48.6	70.0	65.0	58.9	55.0	50.9	49.3
14-Dec-05	16:15:00	900	62.8	82.4	46.9	72.1	65.9	59.4	54.5	49.1	47.8
14-Dec-05	16:30:00	900	58.4	74.8	47.9	67.4	62.5	57.2	53.7	49.6	48.2
14-Dec-05	16:45:00	900	62.5	77.5	49.2	70.8	67.1	61.7	56.9	51.8	50.0
14-Dec-05	17:00:00	900	59.6	73.7	48.5	69.7	63.8	57.9	54.3	50.9	49.1
14-Dec-05	17:15:00	900	59.2	76.4	49.0	68.9	61.9	56.4	53.9	51.4	50.1
14-Dec-05	17:30:00	900	58.7	73.7	48.3	67.9	63.0	57.4	53.8	49.9	48.7
14-Dec-05	17:45:00	900	56.8	72.8	47.2	65.2	61.4	56.1	51.7	48.9	47.5
14-Dec-05	18:00:00	900	54.2	72.9	47.7	60.9	55.9	52.4	50.2	48.4	47.9
14-Dec-05	18:15:00	900	55.9	69.9	47.9	64.2	59.1	55.5	52.6	50.0	48.3
14-Dec-05	18:30:00	900	55.0	66.7	47.8	63.1	59.8	54.3	50.8	48.8	48.0
14-Dec-05	18:45:00	900	64.9	89.6	48.0	64.4	58.0	53.9	52.2	49.5	48.2
14-Dec-05	19:00:00	900	53.9	66.3	48.9	60.3	55.5	53.5	52.5	51.1	50.0
14-Dec-05	19:15:00	900	55.6	72.3	49.0	64.0	57.7	54.9	52.9	50.7	49.4
14-Dec-05	19:30:00	900	55.8	70.3	50.0	62.6	59.7	54.9	53.0	51.2	50.1
14-Dec-05	19:45:00	900	52.4	66.5	46.8	57.5	54.3	52.7	51.6	49.1	47.3
14-Dec-05	20:00:00	900	53.9	69.4	47.2	63.4	55.8	51.7	50.2	48.8	47.9
14-Dec-05	20:15:00	900	53.7	69.6	48.1	61.5	54.7	52.8	51.8	50.3	48.5
14-Dec-05	20:30:00	900	56.9	71.4	50.0	65.9	61.0	55.1	53.3	51.3	50.2
14-Dec-05	20:45:00	900	58.8	82.7	49.9	62.6	57.6	54.0	52.5	50.9	50.1
14-Dec-05	21:00:00	900	54.0	70.2	48.2	59.2	55.8	53.6	52.3	50.1	48.6
14-Dec-05	21:15:00	900	57.6	77.9	48.3	65.7	57.2	52.8	51.6	49.7	48.4
14-Dec-05	21:30:00	900	55.1	70.0	49.1	63.6	55.9	53.7	52.6	50.5	49.3
14-Dec-05	21:45:00	900	54.3	67.0	50.1	59.6	56.4	54.0	53.2	51.2	50.2
14-Dec-05	22:00:00	900	55.0	70.2	52.0	60.0	55.8	54.5	53.8	52.7	52.1
14-Dec-05	22:15:00	900	55.2	69.3	51.9	62.0	55.2	54.3	53.7	52.7	52.1
14-Dec-05	22:30:00	900	53.8	61.2	51.2	58.4	55.3	54.1	53.4	52.1	51.2
14-Dec-05	22:45:00	900	53.2	69.4	48.3	58.6	54.1	52.8	51.8	50.1	49.0
14-Dec-05	23:00:00	900	53.2	62.5	49.2	59.7	55.8	53.1	52.0	50.3	49.2
14-Dec-05	23:15:00	900	52.8	71.4	47.3	55.7	52.9	51.9	51.1	49.4	48.1
14-Dec-05	23:30:00	900	51.9	66.6	47.3	57.3	53.6	51.7	50.5	48.8	48.0
14-Dec-05	23:45:00	900	56.7	79.7	44.5	63.9	54.3	50.5	49.1	47.1	45.8
15-Dec-05	0:00:00	900	52.6	68.1	47.3	59.0	53.5	51.8	50.8	48.6	47.3

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 14 - 15, 2005**
Location: **AFC-5**
Description: **889 Stella Street, NW corner of lot**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
15-Dec-05	0:15:00	900	52.5	66.8	46.9	59.9	53.5	51.7	50.7	48.6	47.4
15-Dec-05	0:30:00	900	52.9	63.0	46.3	60.4	56.0	52.6	51.1	48.4	46.4
15-Dec-05	0:45:00	900	48.4	63.8	39.7	55.5	50.3	48.1	44.8	42.2	40.7
15-Dec-05	1:00:00	900	50.4	68.2	42.4	58.3	52.0	48.6	47.3	44.5	43.1
15-Dec-05	1:15:00	900	47.4	59.2	40.3	51.5	49.5	48.4	47.3	42.9	41.4
15-Dec-05	1:30:00	900	47.6	59.1	40.5	51.0	49.6	48.5	47.4	42.7	40.5
15-Dec-05	1:45:00	900	47.9	56.6	40.8	51.8	50.2	49.2	47.8	43.1	41.6
15-Dec-05	2:00:00	900	46.5	54.1	42.0	50.3	48.4	47.3	46.1	43.8	42.3
15-Dec-05	2:15:00	900	52.4	66.0	42.9	63.3	53.6	49.9	48.7	45.1	43.4
15-Dec-05	2:30:00	900	48.7	53.8	40.3	52.1	51.2	50.2	49.0	43.5	41.2
15-Dec-05	2:45:00	900	49.4	58.9	43.7	54.3	51.7	50.4	49.2	45.3	44.1
15-Dec-05	3:00:00	900	50.1	56.4	43.8	53.1	52.4	51.4	50.1	45.9	44.2
15-Dec-05	3:15:00	900	50.7	66.9	44.6	54.0	52.0	51.3	50.0	46.6	45.3
15-Dec-05	3:30:00	900	50.3	55.9	44.4	53.9	52.8	51.7	50.2	46.3	45.0
15-Dec-05	3:45:00	900	53.3	70.5	46.0	60.8	53.9	52.3	51.1	48.0	46.4
15-Dec-05	4:00:00	900	53.6	66.2	48.4	62.0	54.8	52.8	51.8	50.1	48.8
15-Dec-05	4:15:00	900	53.7	62.3	50.4	56.8	55.2	54.1	53.4	52.1	51.0
15-Dec-05	4:30:00	900	57.0	68.3	51.7	62.1	58.6	57.1	56.0	54.2	52.4
15-Dec-05	4:45:00	900	55.4	65.1	52.5	59.0	56.5	55.6	54.9	53.4	52.5
15-Dec-05	5:00:00	900	55.3	66.4	52.6	59.0	56.0	55.2	54.6	53.5	53.0
15-Dec-05	5:15:00	900	55.5	65.1	53.0	58.0	56.8	55.9	55.3	54.0	53.1
15-Dec-05	5:30:00	900	57.7	65.5	54.5	61.7	59.8	58.1	57.3	55.3	54.5
15-Dec-05	5:45:00	900	59.7	66.6	56.6	62.4	60.9	60.2	59.5	58.2	57.1
15-Dec-05	6:00:00	900	58.7	69.1	55.7	64.9	60.8	58.4	57.5	56.3	55.8
15-Dec-05	6:15:00	900	57.3	69.4	52.9	65.5	58.7	56.3	55.2	54.1	53.2
15-Dec-05	6:30:00	900	56.4	71.4	53.0	60.9	57.7	56.0	55.3	54.1	53.1
15-Dec-05	6:45:00	900	61.2	73.9	53.7	66.6	64.8	63.8	57.0	55.2	54.1
15-Dec-05	7:00:00	900	63.8	79.1	53.8	70.4	66.1	64.6	61.2	55.2	54.1
15-Dec-05	7:15:00	900	58.9	71.0	54.8	66.0	61.6	58.2	57.1	56.0	55.1
15-Dec-05	7:30:00	900	60.7	79.1	54.6	68.7	63.2	59.0	57.8	56.2	54.8
15-Dec-05	7:45:00	900	62.5	82.9	54.9	69.4	64.6	59.0	57.5	55.8	55.1
15-Dec-05	8:00:00	900	59.3	76.2	53.6	67.4	61.2	58.0	56.9	55.0	53.6
15-Dec-05	8:15:00	900	59.7	72.7	52.1	68.6	63.3	58.5	56.2	54.2	52.8
15-Dec-05	8:30:00	900	61.2	78.7	50.7	69.9	64.1	58.5	56.4	53.0	51.5
15-Dec-05	8:45:00	900	64.8	82.7	51.0	75.6	67.0	58.2	55.5	53.0	51.6
15-Dec-05	9:00:00	900	58.2	71.0	51.5	66.1	62.1	57.9	55.3	52.9	52.0
15-Dec-05	9:15:00	900	59.5	71.0	51.7	67.9	64.4	57.6	55.7	53.5	52.1
15-Dec-05	9:30:00	900	61.0	76.8	51.1	71.9	62.8	57.2	55.6	53.6	52.0
15-Dec-05	9:45:00	900	62.2	80.0	50.8	72.0	66.5	58.0	54.8	52.3	51.2
15-Dec-05	10:00:00	900	59.9	77.8	51.3	67.8	62.6	56.6	54.4	52.4	51.3
15-Dec-05	10:15:00	900	56.7	73.4	50.1	66.2	58.6	54.3	52.8	51.2	50.2
15-Dec-05	10:30:00	900	63.4	85.9	50.3	71.3	65.0	58.6	55.4	52.2	50.6
15-Dec-05	10:45:00	900	61.9	79.1	48.5	72.9	64.9	56.0	53.0	50.3	49.1
15-Dec-05	11:00:00	900	56.0	73.9	47.0	66.0	57.8	53.1	51.0	48.6	47.2
15-Dec-05	11:15:00	900	59.5	77.7	46.8	69.0	63.2	57.0	51.9	48.2	47.1
15-Dec-05	11:30:00	47.5	61.3	70.5	51.8	70.0	66.4	61.8	56.2	52.5	51.9

SBRP AFC Ambient Survey - Spectral Samples

Location AFC-5 - 889 Stella Street (NW corner of front yard)

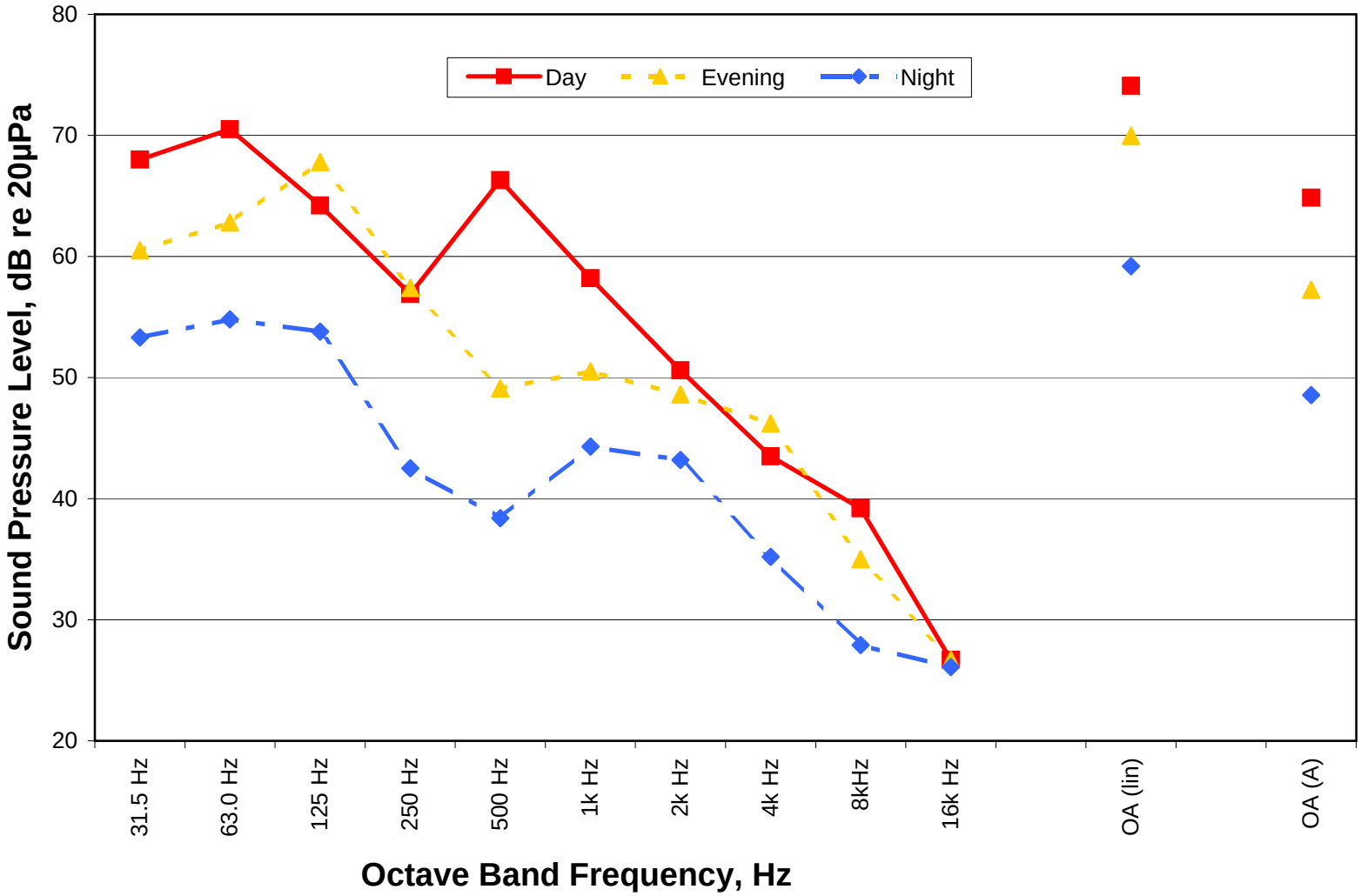

Figure 8.5a-18

Location	**AFC-5**
Brief Description	Stella Street
Full Description	NW corner of front yard at 889 Stella Street; *near B&V location NML 3 of May 2004*
Importance	Closest single-family residential area to the southeast of the site
Long-term Monitoring Period	12/14/05 10:10 to 12/15/05 11:30
General Noise Environment	Predominantly traffic noise from the I-5, as well as Bay Blvd. and Stella Street. Additional contributions from salt processing equipment, wildlife, and the existing SBPP (faintly audible, depending on time of day, contributions of other sources, and the SBPP loading).
Latitude Longitude	N 32° 36.216' W 117° 05.515'
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking from microphone position to the NW toward SBEF and SBPP sites

Looking southwest through microphone positions toward salt processing facility (on Bay Blvd.)

Looking eastward at microphone positions; Stella Street to far left and I-5 is beyond slight rise

LOCATION AFC-6

AFC-6	Near southwest corner of front grassy area at 1021 Bay Boulevard (near entrance sign)	Closest commercial land use

This location's noise level data is similar to others near heavily traveled roadways. In this case, Location AFC-6 is bracketed by the I-5 freeway to the east and the major access roadway, Bay Boulevard, on the west. As such, the Location AFC-6 noise environment is dominated by traffic sources at all hours of the day and night.

The residual (background) noise levels (L_{90}) for Location AFC-6 remain fairly constant through most of the daytime and evening hours, staying within the range of 57 to 63 dBA from about 4 a.m. to past 9 p.m. The L_{90} levels only settled down to a range of 48 to 52 dBA between midnight and 3 a.m.

The hourly L_{eq} values were lowest around 1 a.m. at 56 dBA and steadily increased thereafter to the general daytime range of 64 to 68 dBA, which lasted from 4 a.m. to approximately 9 p.m. After 9 p.m., the L_{eq} levels gradually decreased to the aforementioned low period. Given the measured results, this location, in the Chula Vista commercial land use classification, is currently within the city's noise level limit from approximately 7 p.m. through around 4 a.m. and is not in compliance throughout the remainder of the early morning, daytime, and early evening hours; all due to traffic noise sources.

The spectral record is very similar between the periods sampled; pointing to the only significant parameter that is changing over the course of a typical 24-hour period is the amount of cars traversing the nearby roadways. Field observations at this location confirm that the dominant source is a combination of traffic noise from the I-5 freeway and Bay Boulevard. The SBPP was not audible during the daytime, but was discernible during the evening sampling session (9:40 p.m.) as manifested by a high-pitched whine, as well as during the late-night session (2:25 a.m.) when a low-frequency rumble could be barely heard, but only during momentary lulls in the freeway flow. Even when audible or barely discernible, at no time was the SBPP judged to be contributing to the measured noise levels.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-6 - Commercial lot at 1021 Bay Blvd., near SW corner of lot (by sign)

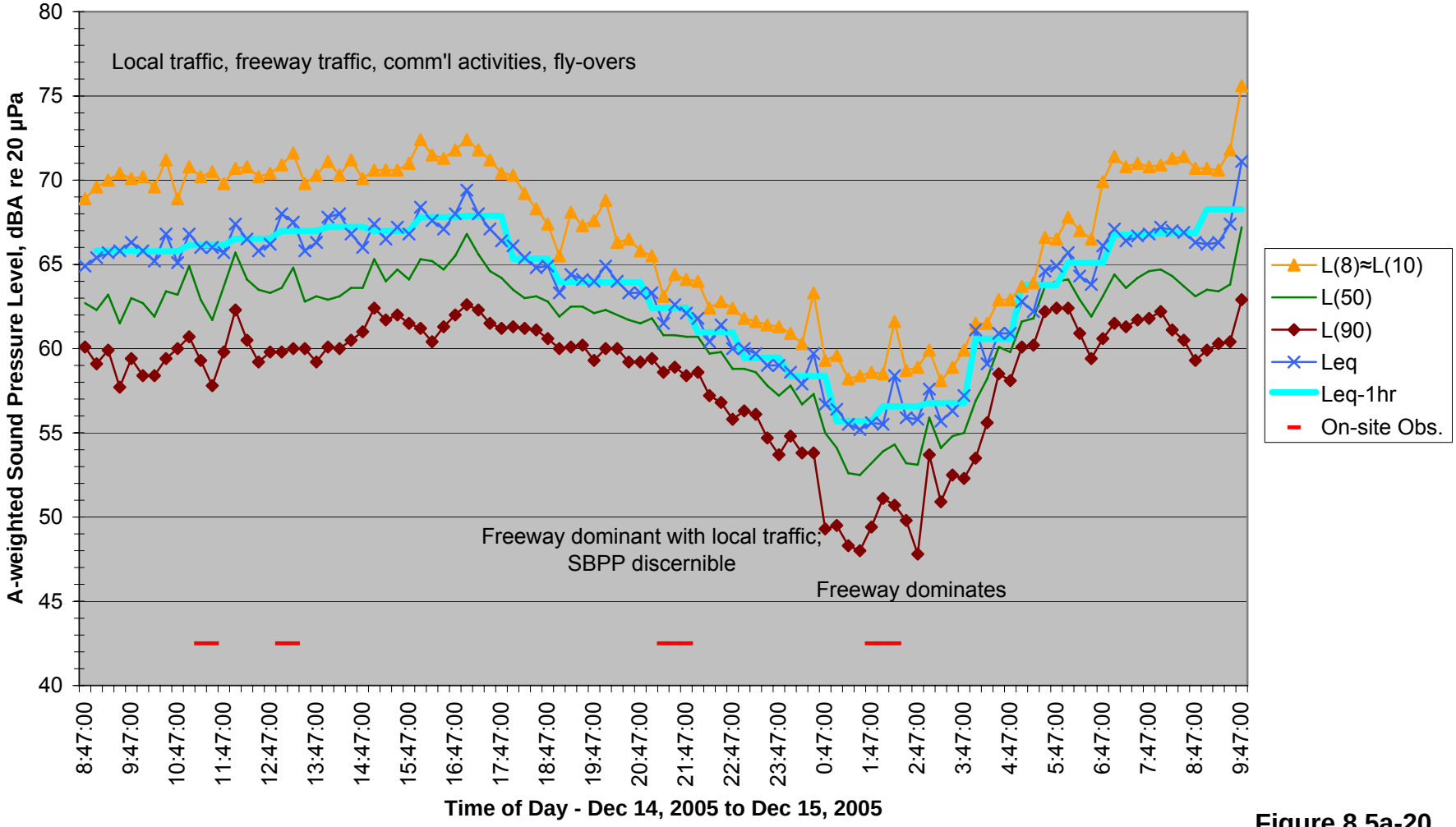

Figure 8.5a-20

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 14 - 15, 2005**
Location: **AFC-6**
Description: **Commercial lot at 1021 Bay Blvd., near SW corner of lot (by sign)**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
14-Dec-05	8:46:02	57.1	65.5	72.6	59.5	71.9	68.9	66.5	63.5	60.6	59.5
14-Dec-05	8:47:00	900	64.9	76.0	57.3	71.5	68.9	65.2	62.7	60.1	58.1
14-Dec-05	9:02:00	900	65.4	81.1	56.0	72.5	69.6	65.1	62.3	59.1	57.3
14-Dec-05	9:17:00	900	65.7	76.3	55.9	72.3	70.0	66.3	63.2	59.9	57.5
14-Dec-05	9:32:00	900	65.8	81.5	54.3	73.9	70.4	64.8	61.5	57.7	55.1
14-Dec-05	9:47:00	900	66.3	82.4	55.7	73.3	70.1	66.5	63.0	59.4	58.0
14-Dec-05	10:02:00	900	65.8	79.7	53.8	73.4	70.2	65.8	62.7	58.4	55.4
14-Dec-05	10:17:00	900	65.2	79.4	55.0	72.5	69.6	65.1	61.9	58.4	55.7
14-Dec-05	10:32:00	900	66.8	80.9	55.4	74.6	71.2	66.7	63.4	59.4	57.1
14-Dec-05	10:47:00	900	65.1	75.6	57.3	71.6	68.9	65.5	63.2	60.0	58.2
14-Dec-05	11:02:00	900	66.8	77.4	57.1	73.0	70.8	67.4	64.9	60.7	58.0
14-Dec-05	11:17:00	900	66.0	77.7	55.6	73.3	70.2	66.4	62.9	59.3	57.0
14-Dec-05	11:32:00	900	66.0	81.5	53.9	74.0	70.5	65.5	61.7	57.8	55.6
14-Dec-05	11:47:00	900	65.7	75.5	55.4	71.8	69.8	66.6	63.7	59.8	56.7
14-Dec-05	12:02:00	900	67.4	77.9	59.3	73.9	70.7	67.9	65.7	62.3	60.5
14-Dec-05	12:17:00	900	66.5	75.5	58.0	73.2	70.8	67.3	64.1	60.5	58.6
14-Dec-05	12:32:00	900	65.8	77.5	55.5	72.4	70.2	66.5	63.5	59.2	56.9
14-Dec-05	12:47:00	900	66.2	77.8	55.5	73.5	70.4	66.8	63.3	59.8	56.6
14-Dec-05	13:02:00	900	68.0	87.8	56.9	75.0	70.9	67.6	63.6	59.8	58.0
14-Dec-05	13:17:00	900	67.5	80.7	55.7	74.5	71.6	68.2	64.8	60.0	57.8
14-Dec-05	13:32:00	900	65.8	81.2	56.3	72.9	69.8	65.4	62.8	60.0	58.1
14-Dec-05	13:47:00	900	66.3	80.8	55.3	73.6	70.3	66.5	63.1	59.2	56.4
14-Dec-05	14:02:00	900	67.8	86.4	57.1	74.2	71.1	66.8	62.9	60.1	58.3
14-Dec-05	14:17:00	900	68.0	89.0	57.6	73.6	70.3	66.3	63.1	60.0	58.3
14-Dec-05	14:32:00	900	66.8	78.2	58.1	73.9	71.2	67.5	63.6	60.5	59.1
14-Dec-05	14:47:00	900	66.0	77.7	58.7	72.5	70.1	66.5	63.6	61.0	59.3
14-Dec-05	15:02:00	900	67.4	82.8	60.5	73.5	70.6	67.8	65.3	62.4	61.1
14-Dec-05	15:17:00	900	66.5	77.6	59.5	73.0	70.6	66.9	64.0	61.7	60.3
14-Dec-05	15:32:00	900	67.2	79.6	59.5	74.0	70.6	67.9	64.7	62.0	60.2
14-Dec-05	15:47:00	900	66.8	75.9	59.2	73.5	71.0	67.7	64.1	61.5	60.0
14-Dec-05	16:02:00	900	68.4	83.0	59.3	74.7	72.4	69.5	65.3	61.2	60.0
14-Dec-05	16:17:00	900	67.6	78.1	57.9	74.4	71.5	68.5	65.2	60.4	58.4
14-Dec-05	16:32:00	900	67.1	75.8	59.0	73.0	71.3	68.4	64.7	61.3	59.7
14-Dec-05	16:47:00	900	68.0	80.1	57.9	74.7	71.8	68.7	65.5	62.0	60.2
14-Dec-05	17:02:00	900	69.4	88.8	60.3	75.3	72.4	69.6	66.8	62.6	61.0
14-Dec-05	17:17:00	900	68.0	80.1	58.8	74.0	71.8	69.0	65.6	62.3	60.6
14-Dec-05	17:32:00	900	67.1	78.4	59.2	73.9	71.2	67.8	64.6	61.5	60.1
14-Dec-05	17:47:00	900	66.4	75.8	58.7	72.7	70.4	67.4	64.2	61.2	59.5
14-Dec-05	18:02:00	900	66.1	77.7	59.3	72.6	70.3	66.4	63.5	61.3	59.9
14-Dec-05	18:17:00	900	65.4	77.2	58.2	72.7	69.2	64.9	63.0	61.2	59.5
14-Dec-05	18:32:00	900	64.8	76.1	58.6	71.2	68.3	64.8	63.1	61.1	59.7
14-Dec-05	18:47:00	900	64.9	81.1	58.6	71.7	67.4	64.3	62.8	60.6	59.2
14-Dec-05	19:02:00	900	63.3	75.5	56.5	70.0	65.5	63.2	61.9	60.0	57.7
14-Dec-05	19:17:00	900	64.4	74.6	56.6	71.5	68.1	64.3	62.5	60.1	58.2
14-Dec-05	19:32:00	900	64.1	75.1	57.8	70.8	67.3	64.0	62.5	60.2	58.7
14-Dec-05	19:47:00	900	64.0	74.5	56.0	71.6	67.6	63.8	62.1	59.3	57.1
14-Dec-05	20:02:00	900	64.9	78.8	57.1	72.4	68.8	64.2	62.3	60.0	58.2
14-Dec-05	20:17:00	900	64.0	76.6	57.5	71.7	66.3	63.2	62.0	60.0	58.3
14-Dec-05	20:32:00	900	63.3	74.3	56.1	69.7	66.5	63.4	61.7	59.2	57.1
14-Dec-05	20:47:00	900	63.3	78.3	56.1	70.1	65.8	62.9	61.5	59.2	57.1
14-Dec-05	21:02:00	900	63.3	75.7	56.4	70.5	65.5	63.1	61.8	59.4	58.0
14-Dec-05	21:17:00	900	61.5	72.2	55.5	66.3	63.1	61.9	60.8	58.6	57.0
14-Dec-05	21:32:00	900	62.6	77.1	56.9	70.2	64.4	62.0	60.8	58.9	57.3
14-Dec-05	21:47:00	900	62.1	75.3	56.2	68.9	64.1	62.0	60.7	58.4	56.9
14-Dec-05	22:02:00	900	61.8	73.9	56.9	67.3	64.0	61.9	60.7	58.6	57.2
14-Dec-05	22:17:00	900	60.4	71.5	54.7	65.0	62.4	60.9	59.7	57.2	55.2
14-Dec-05	22:32:00	900	61.4	78.2	53.8	67.8	62.8	61.1	59.8	56.8	54.3
14-Dec-05	22:47:00	900	60.0	74.2	52.2	65.5	62.4	60.3	58.8	55.8	53.2

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 14 - 15, 2005**
Location: **AFC-6**
Description: **Commercial lot at 1021 Bay Blvd., near SW corner of lot (by sign)**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
14-Dec-05	23:02:00	900	60.0	75.1	53.7	64.1	61.8	60.0	58.8	56.3	54.4
14-Dec-05	23:17:00	900	59.7	72.7	52.7	64.7	61.6	59.9	58.6	56.1	54.1
14-Dec-05	23:32:00	900	59.0	70.3	49.8	64.7	61.4	59.4	57.8	54.7	51.4
14-Dec-05	23:47:00	900	59.0	71.6	50.0	66.5	61.3	58.9	57.2	53.7	50.9
15-Dec-05	0:02:00	900	58.6	70.6	51.6	63.3	60.9	59.3	57.8	54.8	52.3
15-Dec-05	0:17:00	900	57.9	69.8	50.1	63.3	60.3	58.4	56.7	53.8	51.1
15-Dec-05	0:32:00	900	59.7	71.1	49.3	67.6	63.3	59.5	57.3	53.8	50.8
15-Dec-05	0:47:00	900	56.7	73.2	45.6	62.2	59.3	57.3	55.0	49.3	46.6
15-Dec-05	1:02:00	900	56.4	71.5	46.7	63.0	59.6	56.5	54.1	49.5	47.3
15-Dec-05	1:17:00	900	55.5	70.6	45.1	63.7	58.2	55.2	52.6	48.3	46.1
15-Dec-05	1:32:00	900	55.2	70.9	45.6	61.6	58.4	55.3	52.5	48.0	46.2
15-Dec-05	1:47:00	900	55.6	68.0	47.2	63.5	58.6	55.8	53.2	49.4	47.4
15-Dec-05	2:02:00	900	55.5	67.4	48.4	61.3	58.5	56.1	53.9	51.1	49.2
15-Dec-05	2:17:00	900	58.4	75.6	48.6	67.3	61.6	57.0	54.3	50.7	49.2
15-Dec-05	2:32:00	900	55.9	69.2	46.2	64.3	58.7	55.4	53.2	49.8	47.0
15-Dec-05	2:47:00	900	55.8	71.9	44.6	63.8	58.9	55.7	53.1	47.8	45.2
15-Dec-05	3:02:00	900	57.6	70.1	52.5	64.5	59.9	57.6	55.9	53.7	52.5
15-Dec-05	3:17:00	900	55.7	70.0	46.9	62.1	58.1	55.9	54.1	50.9	48.4
15-Dec-05	3:32:00	900	56.3	69.9	49.7	62.0	58.9	56.6	54.8	52.5	50.4
15-Dec-05	3:47:00	900	57.2	70.6	49.7	65.4	59.9	57.0	55.0	52.3	50.3
15-Dec-05	4:02:00	900	61.1	80.9	49.0	67.8	61.5	58.7	56.9	53.5	49.5
15-Dec-05	4:17:00	900	59.1	69.0	53.0	64.3	61.5	59.6	58.2	55.6	53.5
15-Dec-05	4:32:00	900	60.9	68.9	56.4	65.9	62.9	61.3	60.1	58.5	57.1
15-Dec-05	4:47:00	900	60.9	71.4	56.2	66.8	62.9	61.0	59.8	58.1	57.0
15-Dec-05	5:02:00	900	62.8	79.5	58.5	66.9	63.7	62.5	61.6	60.1	59.0
15-Dec-05	5:17:00	900	62.2	68.8	58.5	65.9	63.9	62.7	61.8	60.2	59.1
15-Dec-05	5:32:00	900	64.6	75.6	60.5	70.1	66.6	64.7	63.7	62.2	61.1
15-Dec-05	5:47:00	900	64.9	78.5	61.2	70.1	66.5	64.9	64.0	62.4	61.3
15-Dec-05	6:02:00	900	65.7	80.8	61.0	71.3	67.8	65.2	64.1	62.4	61.2
15-Dec-05	6:17:00	900	64.3	74.8	58.6	71.0	67.0	64.2	62.9	60.9	59.6
15-Dec-05	6:32:00	900	63.8	75.8	57.4	71.6	66.5	63.5	61.9	59.4	58.2
15-Dec-05	6:47:00	900	66.1	82.7	58.8	72.8	69.9	65.4	63.1	60.6	59.2
15-Dec-05	7:02:00	900	67.1	78.6	59.7	74.1	71.4	67.2	64.4	61.5	60.2
15-Dec-05	7:17:00	900	66.4	77.9	58.6	73.9	70.8	66.3	63.6	61.3	59.5
15-Dec-05	7:32:00	900	66.7	75.5	59.7	73.2	71.0	67.2	64.2	61.7	60.3
15-Dec-05	7:47:00	900	66.8	77.5	58.5	73.2	70.8	67.2	64.6	61.8	59.6
15-Dec-05	8:02:00	900	67.2	82.0	60.4	73.6	70.9	67.7	64.7	62.2	61.0
15-Dec-05	8:17:00	900	67.0	78.6	58.7	73.9	71.3	67.3	64.3	61.1	59.3
15-Dec-05	8:32:00	900	66.9	77.3	56.9	74.5	71.4	67.1	63.7	60.5	58.7
15-Dec-05	8:47:00	900	66.3	78.5	56.1	74.1	70.7	66.4	63.1	59.3	57.1
15-Dec-05	9:02:00	900	66.2	76.9	54.4	73.2	70.7	66.7	63.5	59.9	56.5
15-Dec-05	9:17:00	900	66.3	79.6	57.1	72.7	70.6	66.9	63.4	60.3	58.4
15-Dec-05	9:32:00	900	67.4	79.0	58.5	74.7	71.8	67.7	63.8	60.4	58.7
15-Dec-05	9:47:00	900	71.1	83.0	59.4	79.0	75.6	71.5	67.2	62.9	61.0
15-Dec-05	10:02:00	288	81.2	93.2	59.7	91.1	87.5	76.3	70.8	64.8	60.1
15-Dec-05	10:09:03	6.6	93.8	93.9	93.7	93.9	93.9	93.7	93.7	93.7	93.7

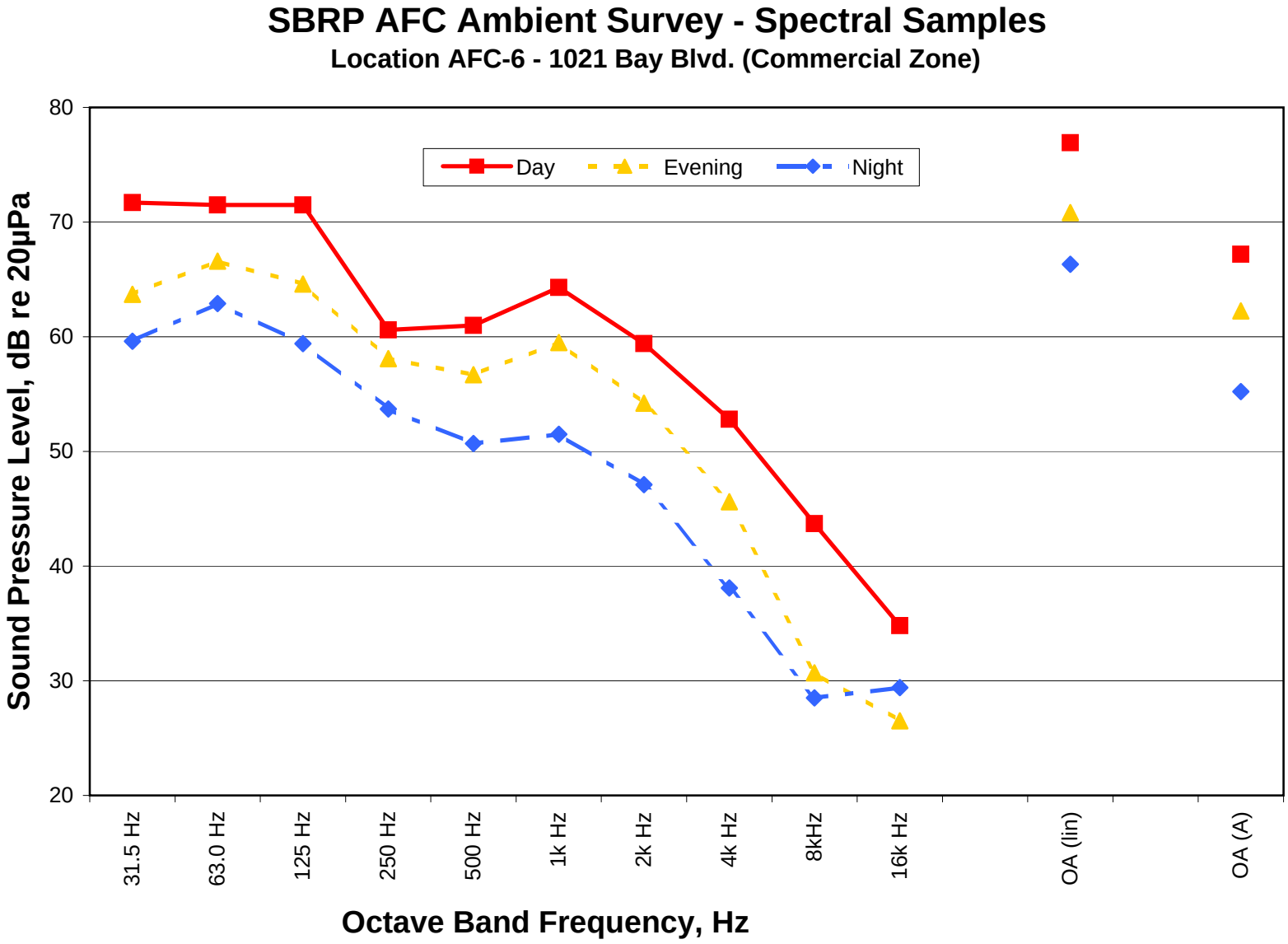

Figure 8.5a-21

Location	**AFC-6**
Brief Description	1021 Bay Blvd
Full Description	Near southwest corner of front grassy area at 1021 Bay Boulevard (near entrance sign)
Importance	Closest commercial land use
Long-term Monitoring Period	12/14/05 08:45 to 12/15/05 10:08
General Noise Environment	Predominantly traffic noise from the I-5, then from Bay Blvd., with additional contributions from wildlife and the existing SBPP (depending on time of day, contributions of other sources, and the SBPP loading).
Latitude Longitude	N 32° 36.609’ W 117° 05.521’
Source: Alliance Acoustical Consultants, Inc., 2005	

I-5 freeway beyond commercial buildings)

Looking from SBEF fenceline eastward toward long-term microphone position at nearest commercial usage across Bay Blvd. (note I-5 beyond commercial buildings)

Approximate future location of SBEF
(due west of measurement location)

SBPP

south *west* *north*

Approximately 180° panorama view from microphone position, looking across Bay Blvd. toward SBPP and SBEF sites

LOCATION AFC-7

AFC-7	On 115-acre SBPP industrial site; south side of plant at extension of water intake structure bridge; on top of fuel oil tank berm; west side of access road	Assessing SBPP noise to south; near potential BFMP bay access area

Location AFC-7 is one of four measurement locations that are on the current SBPP site and not in the surrounding community. As such, these are not currently used as community receptor locations, but were monitored as part of the AFC ambient survey to (a) help assess the noise emissions from the existing SBPP facility and (b) establish a record for future, potential land use development as part of the Port's Bay Front Master Plan.

The Location AFC-7 time-history record shows very little difference – typically only 2 and 3 dB – between the residual (L_{90}) and intrusive (L_8) noise levels, which is a result of a steady noise source. In this case, the steady source is the SBPP plant itself (due to the proximity of the measurement location).

The residual (L_{90}) noise levels varied between 58 and 64 dBA for the 25-hour period. These variations are attributed to differences in unit-to-unit loading, steam exhausting events, and the fluctuating operations of individual equipment items (such as pumps or valves). The hourly L_{eq} values were in a tight range between 60 and 65 dBA. Several daytime aircraft overflight events were noted which probably contributed to the short-term, peaks seen in the L_8 metric.

The Location AFC-7 spectral record shows similar noise environments throughout the four timeframes, with the exception of the mid-day sample (taken just before noon) that shows a peak in the 2,000 Hz octave band. Field notes for that sample indicate a preponderance of higher-pitched noise from rotating equipment, as compared to other times of the day and night. It is unknown what was taking place at the plant to yield more noise emissions in this frequency band.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-7 - SBPP Tank Farm Access Road (top of berm)

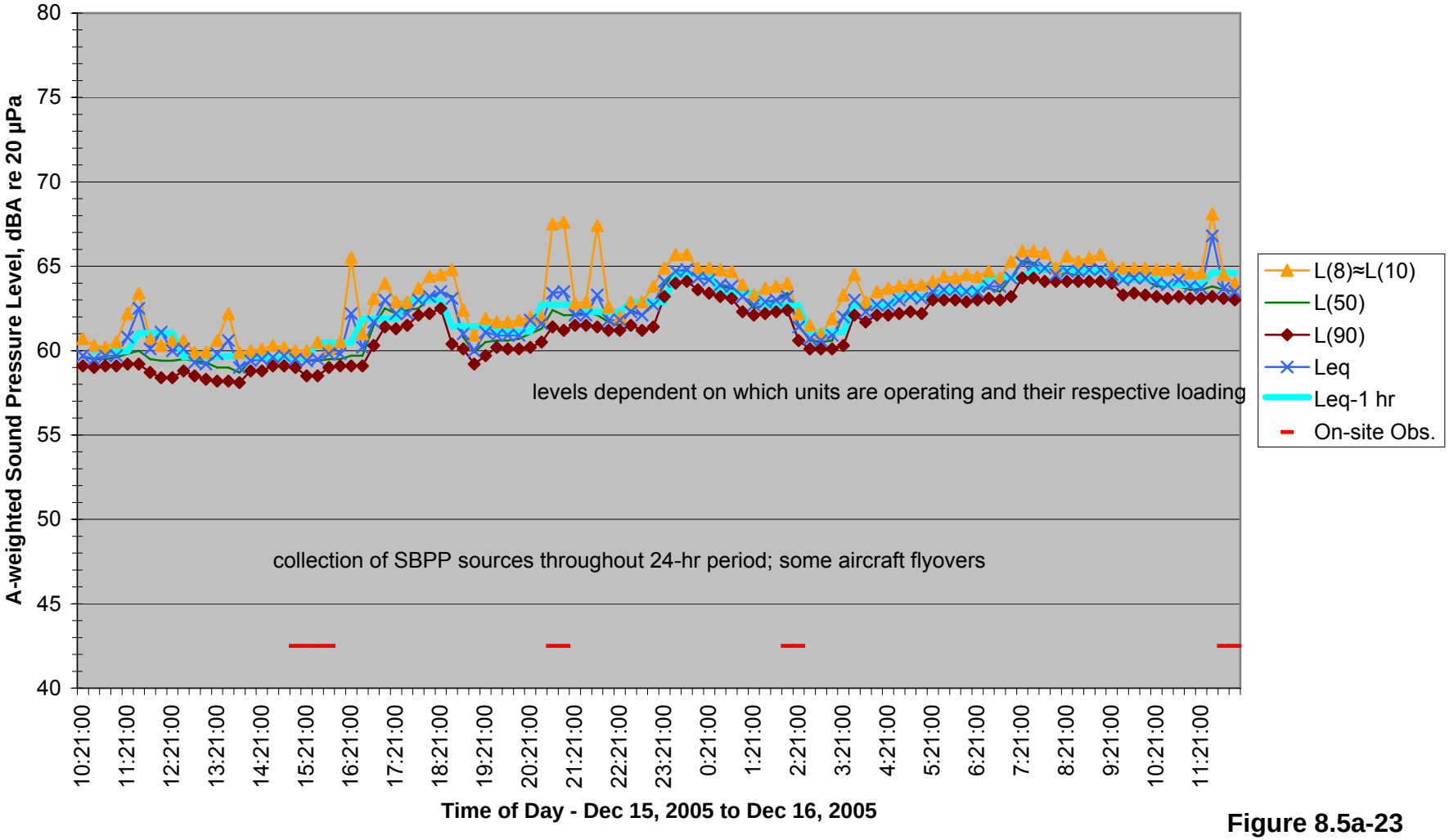

Figure 8.5a-23

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-7**
Description: **SBPP Tank Farm Access Road (top of berm)**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
15-Dec-05	10:20:04	55.4	61.5	69.9	59.5	67.2	64.4	60.9	60.3	59.5	59.5
15-Dec-05	10:21:00	900	59.7	63.7	58.7	61.0	60.7	59.9	59.6	59.1	58.7
15-Dec-05	10:36:00	900	59.5	61.5	58.7	60.8	60.3	59.8	59.5	59.0	58.7
15-Dec-05	10:51:00	900	59.7	64.1	58.8	61.1	60.2	59.8	59.5	59.1	59.0
15-Dec-05	11:06:00	900	59.7	60.8	59.0	60.8	60.5	59.9	59.6	59.1	59.0
15-Dec-05	11:21:00	900	60.8	70.4	58.9	67.0	62.2	60.6	59.8	59.2	59.0
15-Dec-05	11:36:00	900	62.5	76.5	59.1	72.4	63.4	60.8	60.0	59.2	59.1
15-Dec-05	11:51:00	900	60.1	70.2	58.3	66.2	60.7	59.8	59.5	58.7	58.3
15-Dec-05	12:06:00	900	61.1	74.0	58.2	70.5	60.3	59.7	59.4	58.4	58.2
15-Dec-05	12:21:00	900	60.0	71.8	58.4	64.2	60.6	59.8	59.4	58.4	58.4
15-Dec-05	12:36:00	900	60.1	78.7	58.4	62.5	60.6	59.8	59.5	58.8	58.4
15-Dec-05	12:51:00	900	59.3	61.6	58.3	60.4	59.9	59.7	59.4	58.5	58.3
15-Dec-05	13:06:00	900	59.2	60.2	57.8	60.0	59.9	59.6	59.3	58.3	58.0
15-Dec-05	13:21:00	900	59.8	69.4	57.8	66.0	60.6	59.6	59.0	58.2	58.0
15-Dec-05	13:36:00	900	60.6	69.8	57.9	68.1	62.2	59.8	59.0	58.2	58.0
15-Dec-05	13:51:00	900	59.0	64.1	57.8	61.6	59.9	59.1	58.7	58.1	58.0
15-Dec-05	14:06:00	900	59.4	66.2	58.4	60.7	60.0	59.7	59.4	58.8	58.4
15-Dec-05	14:21:00	900	59.5	63.4	58.3	61.7	60.1	59.8	59.5	58.8	58.3
15-Dec-05	14:36:00	900	59.6	62.1	58.5	61.0	60.3	59.8	59.5	59.1	58.5
15-Dec-05	14:51:00	900	59.7	69.3	58.7	61.0	60.2	59.8	59.5	59.1	58.7
15-Dec-05	15:06:00	900	59.5	62.4	58.5	61.2	60.0	59.8	59.5	59.0	58.5
15-Dec-05	15:21:00	900	59.4	62.9	58.0	60.9	60.0	59.7	59.4	58.5	58.0
15-Dec-05	15:36:00	900	59.5	63.2	58.4	62.2	60.5	59.8	59.4	58.5	58.4
15-Dec-05	15:51:00	900	59.8	66.8	58.5	63.5	60.1	59.8	59.5	59.0	58.5
15-Dec-05	16:06:00	900	59.8	65.7	58.6	63.5	60.5	59.8	59.5	59.1	58.6
15-Dec-05	16:21:00	900	62.2	75.1	58.8	70.1	65.5	60.7	59.7	59.1	59.0
15-Dec-05	16:36:00	900	60.2	67.2	58.7	63.4	61.0	60.3	59.7	59.1	59.0
15-Dec-05	16:51:00	900	61.7	65.5	59.8	64.0	63.1	62.4	61.5	60.3	60.0
15-Dec-05	17:06:00	900	63.0	70.8	60.8	67.1	64.0	63.3	62.5	61.4	61.0
15-Dec-05	17:21:00	900	62.2	70.2	61.1	64.1	62.9	62.7	62.2	61.3	61.1
15-Dec-05	17:36:00	900	62.2	63.3	61.3	63.0	62.9	62.7	62.4	61.5	61.3
15-Dec-05	17:51:00	900	63.0	71.6	61.5	66.9	63.7	62.9	62.5	62.1	61.5
15-Dec-05	18:06:00	900	63.2	66.6	62.0	64.9	64.4	63.7	63.1	62.2	62.0
15-Dec-05	18:21:00	900	63.5	65.1	62.1	64.9	64.5	63.9	63.5	62.5	62.1
15-Dec-05	18:36:00	900	63.1	67.1	60.0	65.2	64.8	64.3	63.2	60.4	60.0
15-Dec-05	18:51:00	900	61.0	64.9	59.6	63.5	62.4	61.5	60.8	60.1	59.6
15-Dec-05	19:06:00	900	60.0	61.5	58.7	61.5	60.9	60.5	59.9	59.2	58.7
15-Dec-05	19:21:00	900	61.1	70.2	59.2	66.1	61.9	61.0	60.5	59.7	59.2
15-Dec-05	19:36:00	900	60.9	64.1	60.2	61.9	61.7	61.0	60.6	60.2	60.2
15-Dec-05	19:51:00	900	60.9	64.1	60.1	62.9	61.7	61.0	60.6	60.1	60.1
15-Dec-05	20:06:00	900	60.9	65.7	60.1	62.0	61.8	61.2	60.7	60.1	60.1
15-Dec-05	20:21:00	900	61.8	70.8	60.2	68.3	62.0	61.6	61.0	60.2	60.2
15-Dec-05	20:36:00	900	61.6	69.4	60.5	65.5	62.0	61.7	61.3	60.5	60.5
15-Dec-05	20:51:00	900	63.4	69.5	61.4	68.7	67.5	62.8	62.4	61.4	61.4
15-Dec-05	21:06:00	900	63.5	69.5	61.2	68.6	67.6	62.8	62.1	61.2	61.2
15-Dec-05	21:21:00	900	62.1	62.8	61.5	62.8	62.8	62.5	62.1	61.5	61.5
15-Dec-05	21:36:00	900	62.1	68.5	61.5	63.0	62.9	62.6	62.3	61.5	61.5
15-Dec-05	21:51:00	900	63.3	69.3	61.4	68.6	67.4	62.7	62.1	61.4	61.4
15-Dec-05	22:06:00	900	61.8	62.6	61.2	62.6	62.6	62.0	61.7	61.2	61.2
15-Dec-05	22:21:00	900	61.8	68.9	61.2	62.8	62.0	61.8	61.5	61.2	61.2
15-Dec-05	22:36:00	900	62.3	63.1	61.3	63.0	62.9	62.7	62.4	61.5	61.3
15-Dec-05	22:51:00	900	62.1	64.4	61.0	63.2	62.9	62.6	62.1	61.2	61.0
15-Dec-05	23:06:00	900	62.7	64.3	61.1	64.0	63.8	63.4	62.8	61.4	61.1
15-Dec-05	23:21:00	900	64.1	67.5	62.9	65.8	64.9	64.5	63.9	63.2	63.0
15-Dec-05	23:36:00	900	64.7	65.9	63.3	65.9	65.7	65.0	64.6	64.0	63.3
15-Dec-05	23:51:00	900	64.8	66.3	63.8	65.9	65.7	65.0	64.7	64.1	63.8
16-Dec-05	0:06:00	900	64.3	66.9	63.4	65.3	64.9	64.7	64.4	63.6	63.4

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-7**
Description: **SBPP Tank Farm Access Road (top of berm)**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
16-Dec-05	0:21:00	900	64.2	66.5	63.0	65.0	64.9	64.7	64.3	63.4	63.0
16-Dec-05	0:36:00	900	63.9	65.0	63.1	64.9	64.8	64.3	63.8	63.2	63.1
16-Dec-05	0:51:00	900	63.8	65.1	62.7	64.9	64.7	64.0	63.7	63.1	63.0
16-Dec-05	1:06:00	900	63.2	65.5	62.1	64.6	63.9	63.7	63.2	62.3	62.1
16-Dec-05	1:21:00	900	62.7	64.3	61.8	63.8	63.3	62.8	62.5	62.1	62.0
16-Dec-05	1:36:00	900	62.9	63.7	62.2	63.7	63.7	63.0	62.7	62.2	62.2
16-Dec-05	1:51:00	900	63.0	63.9	62.3	63.9	63.8	63.5	63.0	62.3	62.3
16-Dec-05	2:06:00	900	63.2	66.2	61.9	64.7	64.0	63.7	63.4	62.4	62.0
16-Dec-05	2:21:00	900	61.4	63.0	60.4	62.8	62.2	61.8	61.5	60.6	60.4
16-Dec-05	2:36:00	900	60.7	64.3	59.7	61.9	61.5	60.9	60.6	60.1	59.7
16-Dec-05	2:51:00	900	60.6	64.3	59.6	61.8	61.0	60.8	60.5	60.1	59.6
16-Dec-05	3:06:00	900	60.9	64.8	59.7	62.9	61.9	61.0	60.6	60.1	59.8
16-Dec-05	3:21:00	900	62.0	64.2	59.8	63.9	63.3	62.7	62.1	60.3	59.9
16-Dec-05	3:36:00	900	63.0	65.0	61.4	64.9	64.5	63.5	62.7	62.1	61.4
16-Dec-05	3:51:00	900	62.3	63.3	61.5	63.0	62.9	62.7	62.4	61.7	61.5
16-Dec-05	4:06:00	900	62.7	63.8	61.7	63.8	63.5	62.9	62.6	62.1	61.7
16-Dec-05	4:21:00	900	62.7	64.1	61.4	63.9	63.7	63.0	62.7	62.1	61.4
16-Dec-05	4:36:00	900	63.0	64.1	61.9	64.0	63.8	63.5	63.0	62.2	62.0
16-Dec-05	4:51:00	900	63.2	64.8	62.0	64.5	63.9	63.6	63.2	62.3	62.0
16-Dec-05	5:06:00	900	63.1	64.6	62.2	64.0	63.9	63.6	63.1	62.2	62.2
16-Dec-05	5:21:00	900	63.5	69.0	62.5	64.8	64.1	63.8	63.5	63.0	62.5
16-Dec-05	5:36:00	900	63.6	64.7	62.5	64.7	64.4	63.8	63.5	63.0	62.5
16-Dec-05	5:51:00	900	63.6	65.2	62.5	64.8	64.3	63.8	63.5	63.0	62.5
16-Dec-05	6:06:00	900	63.5	64.7	62.5	64.7	64.5	63.9	63.5	62.9	62.5
16-Dec-05	6:21:00	900	63.5	64.5	62.4	64.5	64.4	63.9	63.5	63.0	62.4
16-Dec-05	6:36:00	900	63.8	65.9	62.8	64.9	64.7	64.2	63.7	63.1	63.0
16-Dec-05	6:51:00	900	63.8	74.1	62.5	65.3	64.3	63.8	63.5	63.0	62.5
16-Dec-05	7:06:00	900	64.3	67.7	62.7	65.9	65.3	64.7	64.3	63.2	62.7
16-Dec-05	7:21:00	900	65.2	66.4	64.2	66.0	65.9	65.6	65.3	64.3	64.2
16-Dec-05	7:36:00	900	65.1	66.6	63.9	66.0	65.9	65.6	65.2	64.3	64.0
16-Dec-05	7:51:00	900	64.9	66.2	63.9	65.9	65.8	65.3	64.8	64.1	64.0
16-Dec-05	8:06:00	900	64.5	65.9	63.7	65.5	64.9	64.8	64.5	64.1	63.7
16-Dec-05	8:21:00	900	64.7	65.8	63.5	65.8	65.6	65.0	64.6	64.1	63.5
16-Dec-05	8:36:00	900	64.7	65.5	63.8	65.5	65.3	64.8	64.5	64.1	64.0
16-Dec-05	8:51:00	900	64.8	66.2	63.9	65.9	65.5	64.9	64.6	64.1	64.0
16-Dec-05	9:06:00	900	64.8	66.3	63.7	65.9	65.7	65.0	64.7	64.1	63.9
16-Dec-05	9:21:00	900	64.5	65.5	63.2	65.5	65.0	64.8	64.5	64.0	63.2
16-Dec-05	9:36:00	900	64.2	65.3	63.1	65.0	64.9	64.6	64.3	63.3	63.1
16-Dec-05	9:51:00	900	64.3	65.7	63.1	65.3	64.9	64.7	64.4	63.4	63.1
16-Dec-05	10:06:00	900	64.3	70.0	63.1	66.9	64.9	64.6	64.2	63.3	63.1
16-Dec-05	10:21:00	900	64.0	68.9	62.8	65.4	64.8	64.4	63.8	63.2	63.0
16-Dec-05	10:36:00	900	63.9	64.9	62.8	64.9	64.8	64.3	63.8	63.1	63.0
16-Dec-05	10:51:00	900	64.2	71.7	62.8	67.9	64.9	64.4	63.8	63.2	63.0
16-Dec-05	11:06:00	900	63.8	65.6	63.0	64.9	64.6	63.9	63.6	63.1	63.0
16-Dec-05	11:21:00	900	63.7	64.6	62.8	64.6	64.6	63.9	63.6	63.1	63.0
16-Dec-05	11:36:00	900	66.8	83.0	62.9	76.1	68.1	64.5	63.8	63.2	63.0
16-Dec-05	11:51:00	900	63.7	66.8	62.8	65.0	64.5	63.9	63.6	63.1	62.8
16-Dec-05	12:06:00	900	63.5	66.1	62.6	64.8	64.0	63.8	63.5	63.0	62.6
16-Dec-05	12:21:00	447.7	63.4	64.1	62.6	64.0	63.9	63.7	63.5	63.1	62.6

SBRP AFC Ambient Survey - Spectral Samples

Location AFC-7 - SBPP Site - south of plant on fuel tank berm

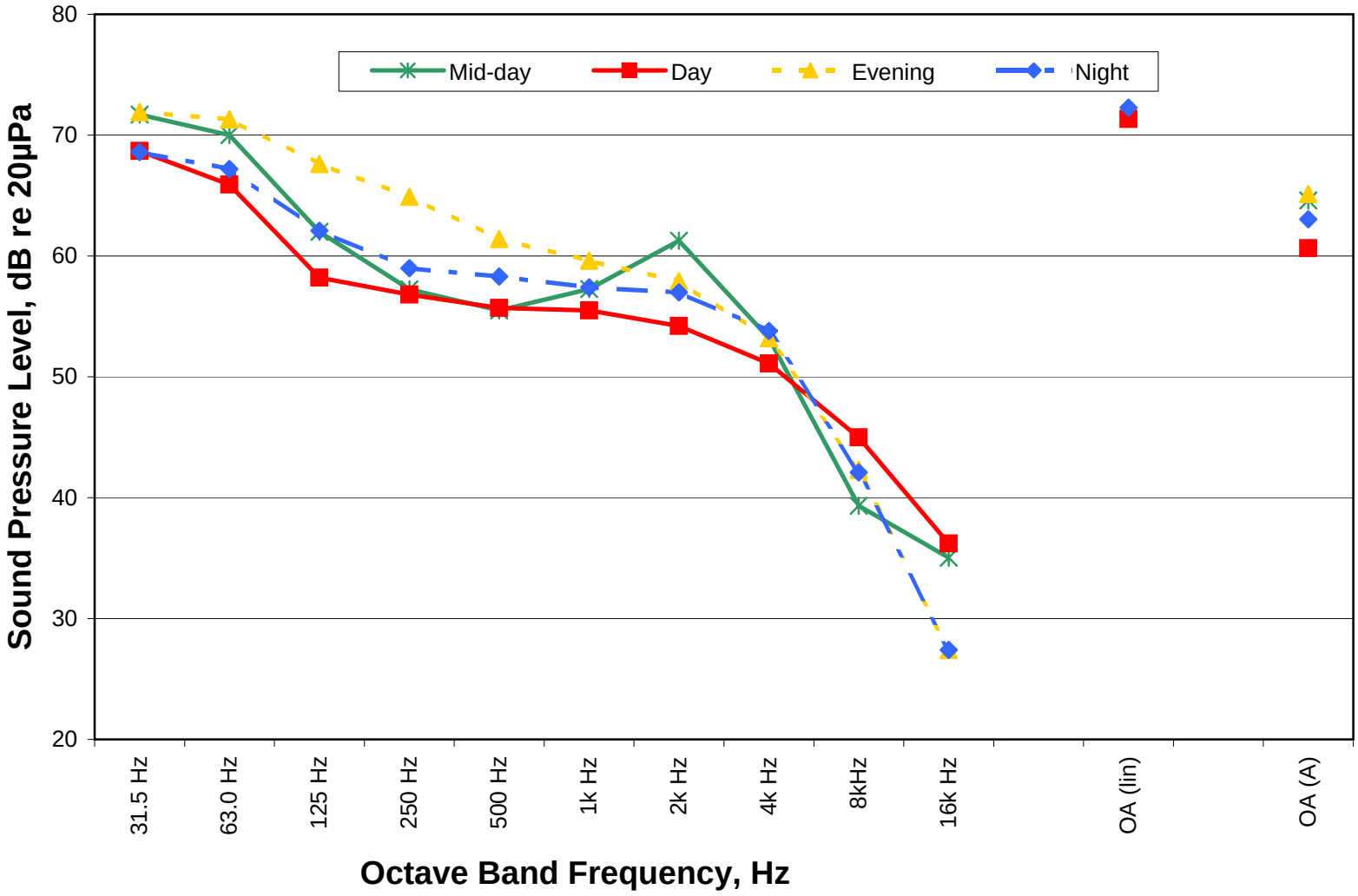

Figure 8.5a-24

Location	**AFC-7**
Brief Description	SBPP site; south of plant
Full Description	On 115-acre SBPP industrial site; south side of plant at extension of water intake structure bridge; on top of fuel oil tank berm; west side of access road
Importance	Assessing SBPP noise to south; near potential BFMP bay access area
Long-term Monitoring Period	12/15/05 10:21 to 12/16/05 12:30
General Noise Environment	Predominantly the existing SBPP with additional contributions from surf and wind noise, as well as wildlife and aircraft flyovers.
Latitude Longitude	N 32° 36.771’ W 117° 05.857’
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking south from intake/discharge bridge toward microphone position; with westernmost fuel oil tank to left

Looking north from fuel oil storage basin through microphone position at SBPP Units 2, 3, and 4 (l – r)

Note: everything in these pictures will be removed as part of Project’s demolition program

LOCATION AFC-8

AFC-8	On 115-acre SBPP industrial site; in truck wash-out area; along extension of north-side longitudinal face of power structure; 610' east of east face of Unit #4	Assessing SBPP noise to east; near potential BFMP open/park area

Location AFC-8 is one of four measurement locations that are on the current SBPP site and not in the surrounding community. As such, these are not currently used as community receptor locations, but were monitored as part of the AFC ambient survey to (a) help assess the noise emissions from the existing SBPP facility and (b) establish a record for future, potential land use development as part of the Port's Bay Front Master Plan.

The Location AFC-8 time-history record shows more differences between the residual (L_{90}) and intrusive (L_8) noise levels than was recorded at Location AFC-7. This location, being due east of Unit #4 (the reportedly noisiest unit at SBPP), was probably more susceptible to changes in this unit's loading pattern over the survey period. The freeway could be heard at this location, but it was subjectively judged to be below the controlling influence of the SBPP sources; by approximately 3 to 5 dB.

The residual (L_{90}) noise levels varied between 52 and 65 dBA for the 25-hour period. These variations are attributed to differences in unit-to-unit loading, steam exhausting events, and the fluctuating operations of individual equipment items (such as pumps or valves). The hourly L_{eq} values ranged from 56 to 66 dBA. Several daytime aircraft overflight events were noted which probably contributed to the short-term, peaks seen in the L_8 metric; particularly in the afternoon hours.

The Location AFC-8 spectral record shows similar noise environments throughout the four timeframes, but steam discharges were noted during the daytime sample (with a broad peak in the 4,000 and 8,000 Hz octave bands) and particular contributions from rotating equipment were noted for the morning/mid-day sample (with a peak in the 2,000 Hz octave band). It is unknown what was taking place at the plant to yield more noise emissions in those frequency bands at the different short-term monitoring periods.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-8 - SBPP Truck Wash-off Area (due east of power structure)

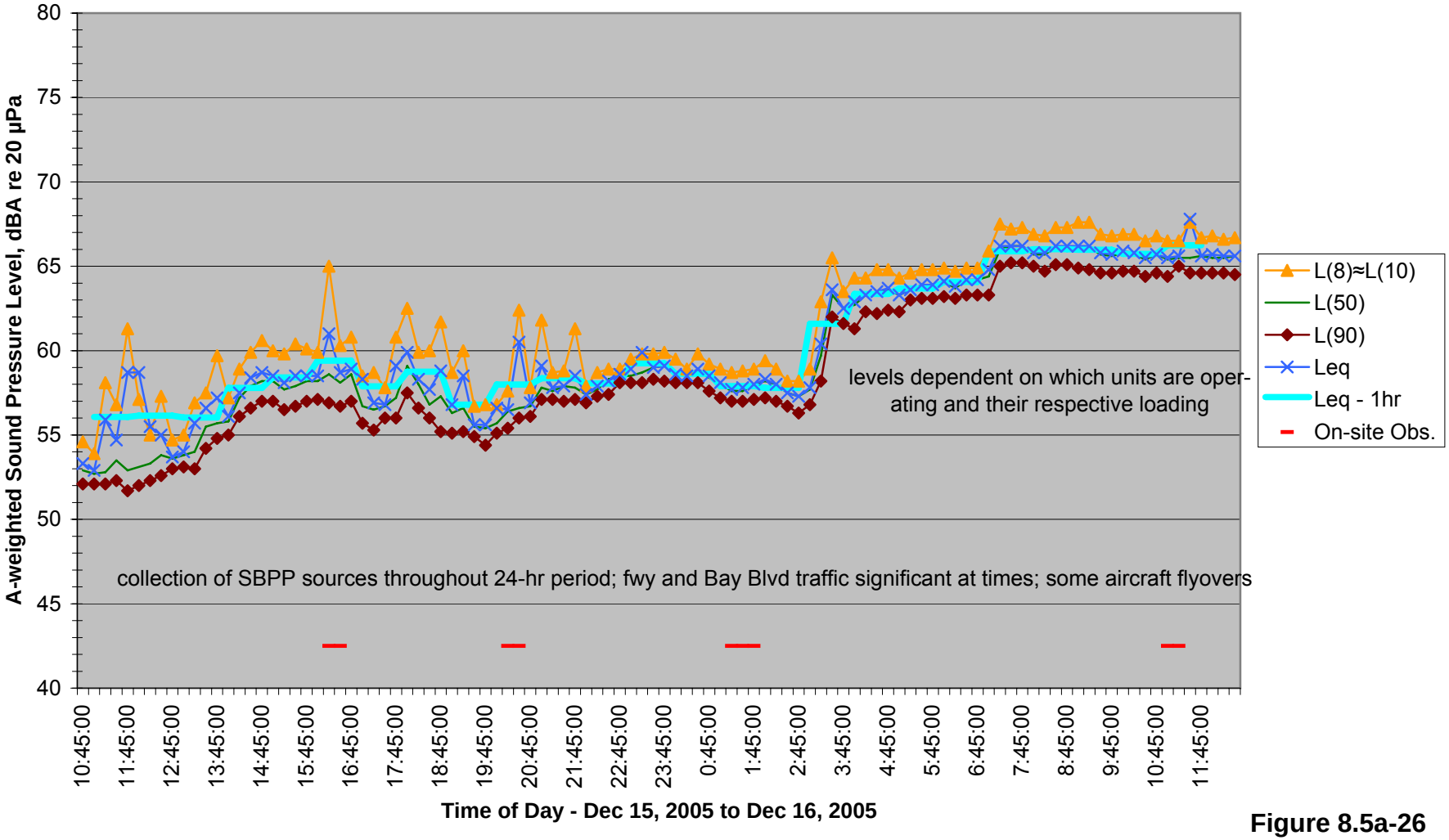

Figure 8.5a-26

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-8**
Description: **SBPP Truck Wash-off Area (due east of power structure)**

Date	Start Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
15-Dec-05	10:31:03	0:13:56	53.5	65.1	50.8	57.1	55.5	53.5	52.8	52.1	51.3
15-Dec-05	10:45:00	0:15:00	53.3	59.4	51.8	56.2	54.6	53.6	52.9	52.1	52.0
15-Dec-05	11:00:00	0:15:00	52.9	58.5	51.8	54.9	53.9	53.1	52.7	52.1	51.8
15-Dec-05	11:15:00	0:15:00	55.9	68.6	51.6	65.1	58.1	53.6	52.8	52.1	51.6
15-Dec-05	11:30:00	0:15:00	54.7	65.3	52.0	61.0	56.8	54.2	53.5	52.3	52.0
15-Dec-05	11:45:00	0:15:00	58.7	74.6	50.7	69.4	61.3	54.4	52.9	51.7	51.0
15-Dec-05	12:00:00	0:15:00	58.7	74.2	51.1	71.4	57.1	53.8	53.1	52.0	51.1
15-Dec-05	12:15:00	0:15:00	55.5	71.2	51.7	63.5	55.0	53.8	53.3	52.3	52.0
15-Dec-05	12:30:00	0:15:00	55.0	68.5	52.1	59.3	57.3	54.8	53.8	52.6	52.1
15-Dec-05	12:45:00	0:15:00	53.7	57.5	52.2	55.1	54.7	53.9	53.6	53.0	52.2
15-Dec-05	13:00:00	0:15:00	54.0	59.4	52.4	56.6	55.0	54.4	53.8	53.1	52.4
15-Dec-05	13:15:00	0:15:00	55.7	69.9	51.8	63.6	56.9	55.3	54.0	53.0	52.1
15-Dec-05	13:30:00	0:15:00	56.6	68.4	53.2	63.6	57.5	56.3	55.5	54.2	53.2
15-Dec-05	13:45:00	0:15:00	57.2	67.7	53.7	64.5	59.7	56.6	55.7	54.8	54.0
15-Dec-05	14:00:00	0:15:00	56.1	64.6	54.0	58.3	57.2	56.5	55.8	55.0	54.1
15-Dec-05	14:15:00	0:15:00	57.5	63.7	55.3	60.0	58.9	57.9	57.2	56.1	55.3
15-Dec-05	14:30:00	0:15:00	58.4	66.8	55.3	61.8	59.9	58.8	57.9	56.6	56.0
15-Dec-05	14:45:00	0:15:00	58.7	65.2	55.6	62.2	60.6	59.1	58.2	57.0	56.1
15-Dec-05	15:00:00	0:15:00	58.5	64.4	56.0	61.2	60.0	58.9	58.2	57.0	56.1
15-Dec-05	15:15:00	0:15:00	58.1	65.7	55.5	61.2	59.8	58.6	57.7	56.5	55.9
15-Dec-05	15:30:00	0:15:00	58.5	64.1	55.3	62.2	60.4	58.9	57.9	56.7	56.0
15-Dec-05	15:45:00	0:15:00	58.5	65.3	55.5	61.9	60.1	58.9	58.2	57.0	56.1
15-Dec-05	16:00:00	0:15:00	58.5	64.3	55.8	60.9	59.9	58.9	58.2	57.1	56.1
15-Dec-05	16:15:00	0:15:00	61.0	70.0	55.8	68.5	65.0	60.6	58.6	56.9	56.1
15-Dec-05	16:30:00	0:15:00	58.7	67.5	55.8	63.1	60.3	58.9	58.1	56.7	56.0
15-Dec-05	16:45:00	0:15:00	58.9	64.3	55.4	61.9	60.8	59.6	58.6	57.0	56.0
15-Dec-05	17:00:00	0:15:00	58.3	70.9	55.0	66.1	58.5	57.4	56.7	55.7	55.1
15-Dec-05	17:15:00	0:15:00	56.9	61.4	54.7	60.3	58.7	57.2	56.5	55.3	54.7
15-Dec-05	17:30:00	0:15:00	56.8	60.0	55.4	58.3	57.8	57.3	56.7	56.0	55.4
15-Dec-05	17:45:00	0:15:00	59.1	70.8	55.4	67.8	60.8	58.5	57.2	56.0	55.4
15-Dec-05	18:00:00	0:15:00	59.9	66.7	56.0	63.9	62.5	60.7	59.1	57.5	56.4
15-Dec-05	18:15:00	0:15:00	58.3	62.7	56.0	60.9	59.9	58.8	58.0	56.6	56.0
15-Dec-05	18:30:00	0:15:00	57.7	66.8	55.4	61.9	60.0	57.8	56.8	56.0	55.4
15-Dec-05	18:45:00	0:15:00	58.8	64.8	54.8	62.9	61.7	60.4	57.3	55.2	54.9
15-Dec-05	19:00:00	0:15:00	56.8	61.6	54.1	59.4	58.7	57.8	56.3	55.1	54.1
15-Dec-05	19:15:00	0:15:00	58.5	72.4	54.2	66.5	60.0	57.8	56.6	55.2	54.2
15-Dec-05	19:30:00	0:15:00	55.6	59.4	54.2	57.4	56.7	55.9	55.5	54.9	54.2
15-Dec-05	19:45:00	0:15:00	55.6	62.0	54.0	59.1	56.8	55.8	55.4	54.4	54.0
15-Dec-05	20:00:00	0:15:00	56.6	70.5	54.8	62.1	56.8	56.1	55.7	55.1	54.9
15-Dec-05	20:15:00	0:15:00	56.5	60.3	55.2	58.9	57.6	56.8	56.4	55.4	55.2
15-Dec-05	20:30:00	0:15:00	60.5	73.4	55.5	71.1	62.4	57.0	56.6	56.0	55.5
15-Dec-05	20:45:00	0:15:00	56.9	58.5	55.8	58.4	57.8	57.1	56.7	56.1	56.0
15-Dec-05	21:00:00	0:15:00	59.1	63.3	56.6	62.6	61.8	60.4	57.8	57.1	56.6
15-Dec-05	21:15:00	0:15:00	57.8	59.3	56.8	58.9	58.7	58.0	57.6	57.1	57.0
15-Dec-05	21:30:00	0:15:00	57.9	60.3	56.3	59.0	58.8	58.4	57.9	57.0	56.3
15-Dec-05	21:45:00	0:15:00	58.5	63.1	56.6	62.4	61.3	58.6	57.8	57.1	56.6
15-Dec-05	22:00:00	0:15:00	57.4	58.9	56.3	58.2	57.9	57.7	57.4	56.9	56.3
15-Dec-05	22:15:00	0:15:00	57.9	59.2	57.3	58.9	58.7	58.2	57.7	57.3	57.3
15-Dec-05	22:30:00	0:15:00	58.2	59.5	57.3	59.0	58.9	58.7	58.3	57.4	57.3
15-Dec-05	22:45:00	0:15:00	58.6	59.3	57.7	59.3	58.9	58.8	58.5	58.1	57.7
15-Dec-05	23:00:00	0:15:00	58.9	66.0	57.7	63.3	59.5	58.8	58.5	58.1	57.7
15-Dec-05	23:15:00	0:15:00	59.9	71.6	58.0	67.4	59.8	59.1	58.7	58.1	58.0
15-Dec-05	23:30:00	0:15:00	59.0	59.8	58.3	59.8	59.8	59.5	59.0	58.3	58.3
15-Dec-05	23:45:00	0:15:00	59.1	62.2	58.2	60.5	59.9	59.6	59.1	58.2	58.2
16-Dec-05	0:00:00	0:15:00	58.6	59.8	57.8	59.8	59.5	58.9	58.6	58.1	57.8
16-Dec-05	0:15:00	0:15:00	58.5	59.7	57.7	59.5	58.9	58.8	58.5	58.1	57.7
16-Dec-05	0:30:00	0:15:00	58.9	60.9	57.9	60.0	59.8	59.3	58.8	58.1	58.0
16-Dec-05	0:45:00	0:15:00	58.5	59.9	57.1	59.8	59.2	58.8	58.4	57.6	57.1

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-8**
Description: **SBPP Truck Wash-off Area (due east of power structure)**

Date	Start Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
16-Dec-05	1:00:00	0:15:00	58.1	60.5	56.5	59.7	58.9	58.6	58.0	57.2	57.0
16-Dec-05	1:15:00	0:15:00	57.7	62.7	56.4	59.2	58.7	57.9	57.6	57.0	56.4
16-Dec-05	1:30:00	0:15:00	57.8	61.2	56.5	59.5	58.8	58.1	57.6	57.0	56.5
16-Dec-05	1:45:00	0:15:00	58.0	60.4	56.1	59.6	58.9	58.5	58.0	57.1	56.3
16-Dec-05	2:00:00	0:15:00	58.3	61.6	56.3	59.9	59.4	58.8	58.2	57.2	56.3
16-Dec-05	2:15:00	0:15:00	58.0	62.4	56.0	59.5	58.9	58.5	58.0	57.0	56.1
16-Dec-05	2:30:00	0:15:00	57.5	59.3	56.3	58.8	58.2	57.8	57.5	56.7	56.3
16-Dec-05	2:45:00	0:15:00	57.3	61.8	55.6	58.9	58.2	57.7	57.3	56.3	55.8
16-Dec-05	3:00:00	0:15:00	57.8	63.4	56.0	59.7	58.9	58.3	57.7	56.8	56.1
16-Dec-05	3:15:00	0:15:00	60.4	66.3	57.0	63.9	62.9	61.0	59.7	58.2	57.2
16-Dec-05	3:30:00	0:15:00	63.6	67.0	60.9	66.0	65.5	64.4	63.3	62.0	61.1
16-Dec-05	3:45:00	0:15:00	62.5	64.1	60.8	63.9	63.5	62.8	62.5	61.6	61.0
16-Dec-05	4:00:00	0:15:00	62.9	64.9	60.4	64.8	64.3	63.5	62.7	61.3	60.4
16-Dec-05	4:15:00	0:15:00	63.3	65.3	61.8	64.9	64.3	63.8	63.3	62.3	62.0
16-Dec-05	4:30:00	0:15:00	63.5	65.8	60.8	65.5	64.8	64.1	63.4	62.2	61.2
16-Dec-05	4:45:00	0:15:00	63.7	66.1	61.7	65.4	64.8	64.2	63.6	62.4	62.0
16-Dec-05	5:00:00	0:15:00	63.3	64.6	61.5	64.6	64.3	63.8	63.3	62.3	62.0
16-Dec-05	5:15:00	0:15:00	63.6	64.9	62.2	64.9	64.6	63.9	63.6	63.0	62.2
16-Dec-05	5:30:00	0:15:00	63.9	65.4	62.6	65.0	64.8	64.3	63.7	63.1	62.6
16-Dec-05	5:45:00	0:15:00	63.9	65.4	62.4	65.0	64.8	64.3	63.7	63.1	62.4
16-Dec-05	6:00:00	0:15:00	64.1	65.5	62.7	65.5	64.9	64.6	64.1	63.2	62.7
16-Dec-05	6:15:00	0:15:00	63.8	64.9	62.8	64.9	64.7	64.2	63.7	63.1	63.0
16-Dec-05	6:30:00	0:15:00	64.2	68.9	63.0	65.5	64.9	64.6	64.2	63.3	63.0
16-Dec-05	6:45:00	0:15:00	64.2	65.8	62.9	65.6	64.9	64.7	64.2	63.3	63.0
16-Dec-05	7:00:00	0:15:00	64.8	73.0	62.7	69.3	65.9	64.9	64.4	63.3	63.0
16-Dec-05	7:15:00	0:15:00	66.2	69.3	63.7	67.9	67.5	66.7	66.0	65.0	64.0
16-Dec-05	7:30:00	0:15:00	66.2	68.7	64.0	67.9	67.2	66.7	66.2	65.2	64.5
16-Dec-05	7:45:00	0:15:00	66.2	68.3	64.5	67.9	67.3	66.7	66.2	65.2	64.5
16-Dec-05	8:00:00	0:15:00	65.8	68.1	63.8	67.5	66.9	66.3	65.7	65.0	64.1
16-Dec-05	8:15:00	0:15:00	65.8	67.5	63.1	67.4	66.8	66.3	65.7	64.7	63.6
16-Dec-05	8:30:00	0:15:00	66.2	69.5	62.8	67.9	67.3	66.7	66.1	65.1	64.1
16-Dec-05	8:45:00	0:15:00	66.2	68.4	64.1	67.8	67.3	66.7	66.2	65.1	64.2
16-Dec-05	9:00:00	0:15:00	66.2	69.4	63.8	68.4	67.6	66.7	66.1	64.9	64.0
16-Dec-05	9:15:00	0:15:00	66.2	68.8	63.6	68.0	67.6	66.8	66.1	64.8	64.0
16-Dec-05	9:30:00	0:15:00	65.8	67.9	63.6	67.7	66.9	66.3	65.7	64.6	64.0
16-Dec-05	9:45:00	0:15:00	65.7	68.4	63.6	67.5	66.8	66.2	65.6	64.6	64.0
16-Dec-05	10:00:00	0:15:00	65.9	68.9	63.8	67.9	66.9	66.4	65.8	64.7	64.0
16-Dec-05	10:15:00	0:15:00	65.8	68.7	63.7	67.6	66.9	66.3	65.7	64.7	64.0
16-Dec-05	10:30:00	0:15:00	65.5	67.0	63.5	66.9	66.5	65.8	65.4	64.4	63.9
16-Dec-05	10:45:00	0:15:00	65.7	68.7	64.0	67.6	66.8	66.3	65.7	64.6	64.0
16-Dec-05	11:00:00	0:15:00	65.5	70.4	63.8	67.4	66.5	65.8	65.4	64.4	64.0
16-Dec-05	11:15:00	0:15:00	65.6	66.8	64.0	66.8	66.5	65.9	65.5	65.0	64.1
16-Dec-05	11:30:00	0:15:00	67.8	84.7	64.0	76.1	67.6	66.0	65.5	64.6	64.0
16-Dec-05	11:45:00	0:15:00	65.6	67.3	63.9	66.9	66.7	66.0	65.6	64.6	64.0
16-Dec-05	12:00:00	0:15:00	65.7	69.1	63.8	67.6	66.8	66.0	65.5	64.6	64.0
16-Dec-05	12:15:00	0:15:00	65.6	67.8	64.0	66.9	66.6	65.9	65.5	64.6	64.0
16-Dec-05	12:30:00	0:15:00	65.6	68.2	63.9	67.0	66.7	66.1	65.6	64.5	64.0
16-Dec-05	12:45:00	0:04:15	65.6	68.1	62.7	67.6	66.9	66.2	65.5	64.2	63.1

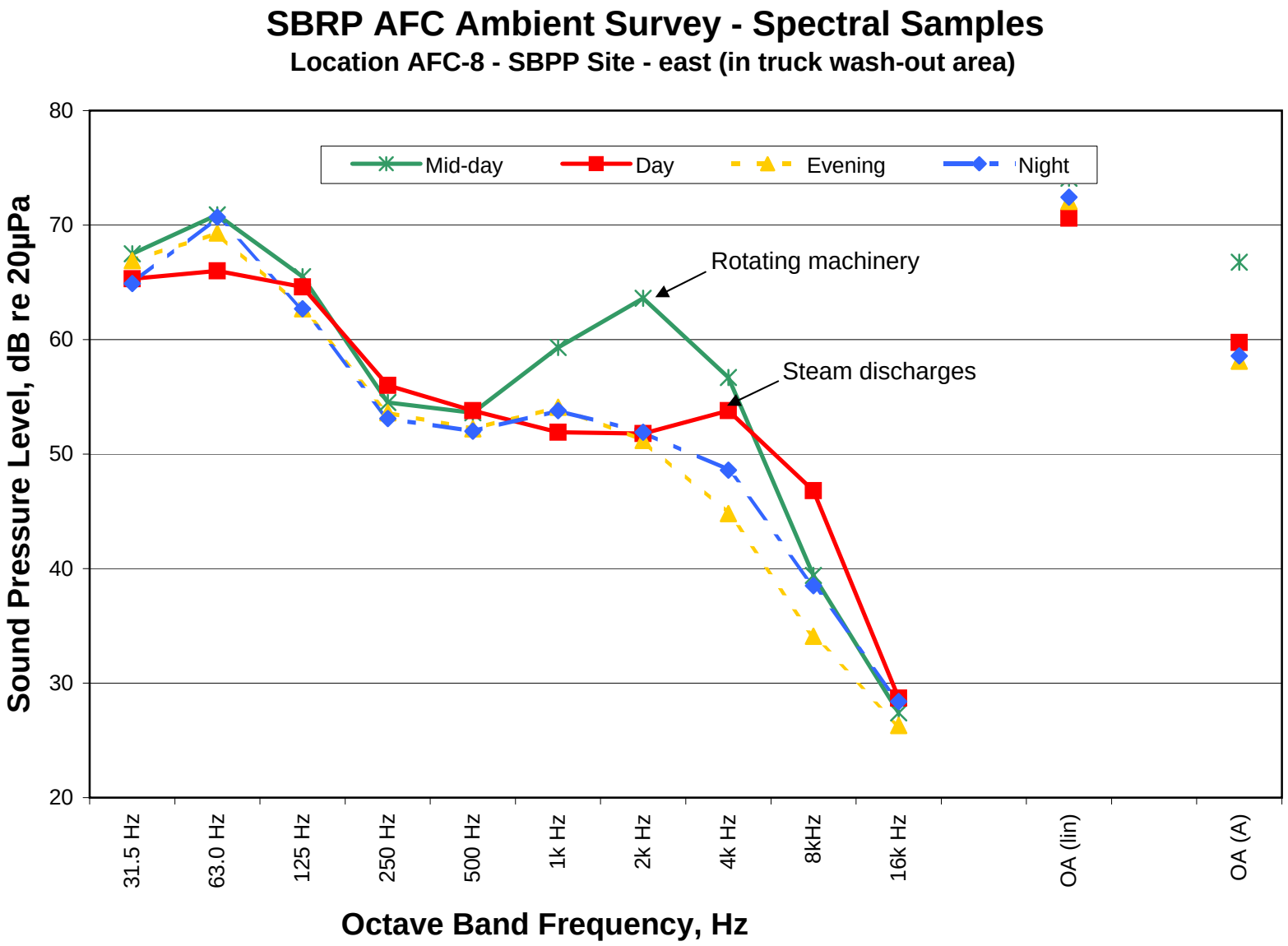

Figure 8.5a-27

Location	**AFC-8**
Brief Description	SBPP site; east of plant
Full Description	On 115-acre SBPP industrial site; in truck wash-out area; along extension of north-side longitudinal face of power structure; 610' east of east face of Unit #4
Importance	Assessing SBPP noise to east; near potential BFMP open/park area
Long-term Monitoring Period	12/15/05 10:31 to 12/16/05 12:50
General Noise Environment	Predominantly the existing SBPP with additional contributions from wildlife, aircraft flyovers, and, in the distance, the I-5 traffic.
Latitude Longitude	N 32° 36.819' W 117° 05.663'
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking away from SBPP, generally eastwardly, through microphone position (with Bay Blvd. and I-5 freeway in distance

Looking westerly from microphone position at east end of SBPP Unit #4

Note: everything in these pictures will be removed as part of Project's demolition program

LOCATION AFC-9

AFC-9	On 115-acre SBPP industrial site; 305' northward from Telegraph Creek bridge; in line with Unit #2 stack; half-way between plant roads	Assessing SBPP noise to NE; at nearest point of potential BFMP MFR condo complexes

Location AFC-9 is one of four measurement locations that are on the current SBPP site and not in the surrounding community. As such, these are not currently used as community receptor locations, but were monitored as part of the AFC ambient survey to (a) help assess the noise emissions from the existing SBPP facility and (b) establish a record for future, potential land use development as part of the Port's Bay Front Master Plan.

The Location AFC-9 time-history record shows a rather close arrangement between the residual (L_{90}) and intrusive (L_8) noise levels; more so than at Location AFC-8, but not as much as at Location AFC-7. Again, in general, this is a result of a steady noise source.

The residual (L_{90}) noise levels varied between 52 and 63 dBA for the 25-hour period. These variations are attributed to differences in unit-to-unit loading, steam exhausting events, and the fluctuating operations of individual equipment items (such as pumps or valves). The hourly L_{eq} values over the 25-hour monitoring session were between 55 and 63 dBA. Several daytime aircraft overflight events were noted which probably contributed to the short-term, peaks seen in the L_8 metric. The field notes indicated that this location, being the closest of the four on-site locations to the I-5 freeway, was more closely influenced by both the SBPP and the freeway traffic, but with the SBPP being the slightly more dominant source for the majority of the survey sessions.

The Location AFC-9 spectral record shows very similar noise spectra for the four short-term sampling sessions, with a noted contribution from rotating equipment and/or steam vents during the morning/mid-day sample (see the slight peak in the 2,000 Hz octave band). Field notes report changing blends of steam venting, rotating equipment sources, and transformer hum noise over the four short-term sessions, but the causes of these changing observations for the SBPP sources is unknown.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-9 - SBPP across Telegraph Creek (by future condos)

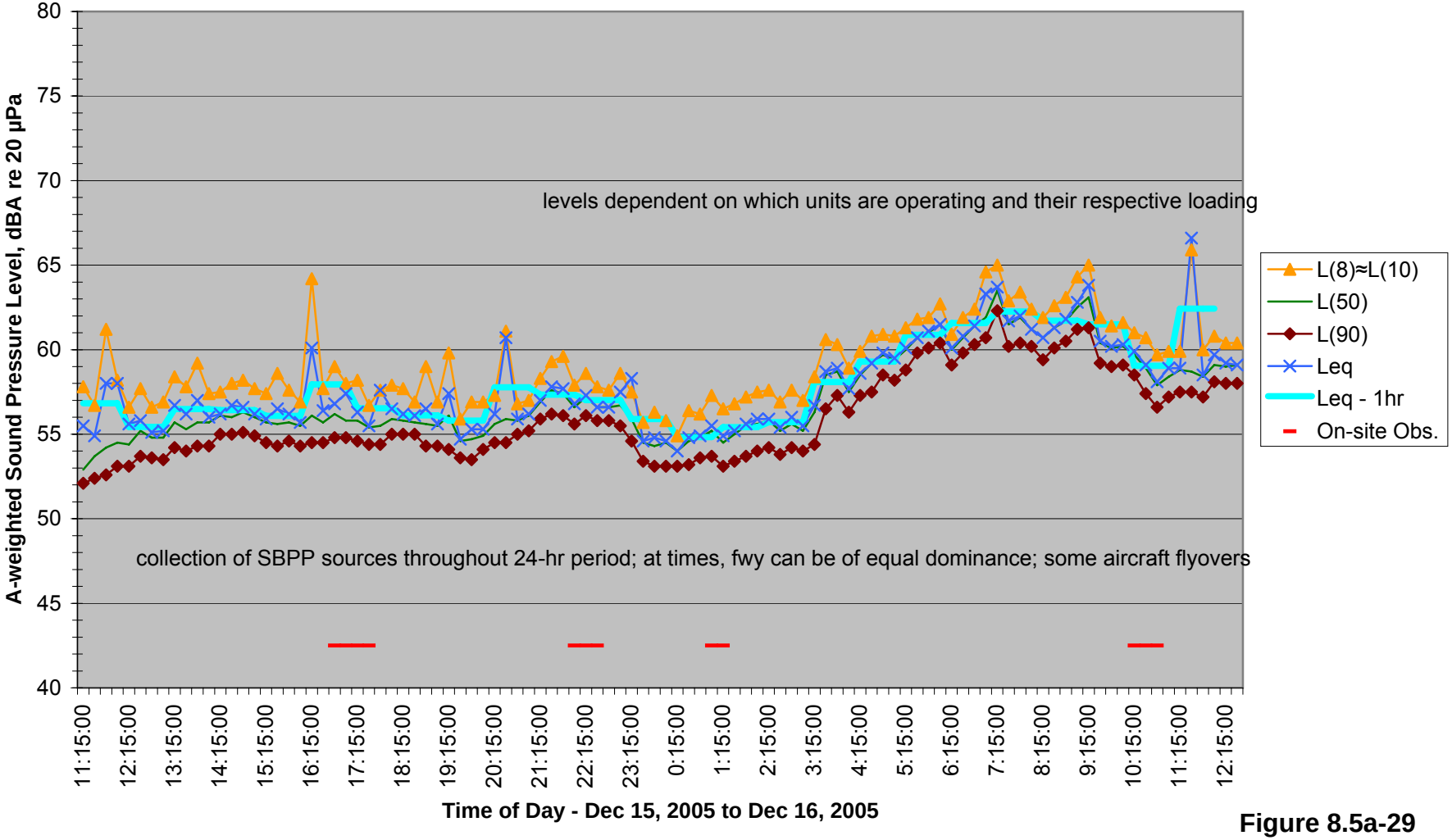

Figure 8.5a-29

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-9**
Description: **SBPP across Telegraph Creek (by future condos)**

Date	Start Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
15-Dec-05	11:08:08	0:00:05	93.8	93.8	93.7	93.8	93.8	93.7	93.7	93.7	93.7
15-Dec-05	11:09:10	0:05:49	53.5	62.7	51.3	57.5	55.2	53.7	53.0	52.0	51.3
15-Dec-05	11:15:00	0:15:00	55.5	67.1	51.2	64.7	57.8	53.8	52.9	52.1	51.2
15-Dec-05	11:30:00	0:15:00	54.9	65.4	51.7	61.4	56.7	54.7	53.7	52.4	52.0
15-Dec-05	11:45:00	0:15:00	58.0	73.6	51.7	67.7	61.2	55.4	54.2	52.6	51.7
15-Dec-05	12:00:00	0:15:00	58.0	72.9	51.8	68.9	58.2	55.6	54.5	53.1	52.1
15-Dec-05	12:15:00	0:15:00	55.6	68.2	52.0	61.8	56.6	55.3	54.4	53.1	52.1
15-Dec-05	12:30:00	0:15:00	55.8	66.5	52.1	59.5	57.7	56.3	55.2	53.7	52.8
15-Dec-05	12:45:00	0:15:00	55.1	58.8	52.8	57.5	56.6	55.6	54.8	53.6	53.0
15-Dec-05	13:00:00	0:15:00	55.2	59.5	52.5	58.0	56.9	55.8	54.8	53.5	52.6
15-Dec-05	13:15:00	0:15:00	56.7	66.8	52.7	62.9	58.4	56.7	55.7	54.2	53.0
15-Dec-05	13:30:00	0:15:00	56.2	65.7	52.8	62.1	57.8	56.3	55.3	54.0	53.1
15-Dec-05	13:45:00	0:15:00	57.0	66.3	53.3	63.9	59.2	56.8	55.7	54.3	53.3
15-Dec-05	14:00:00	0:15:00	56.0	65.3	53.2	58.5	57.4	56.5	55.7	54.3	53.2
15-Dec-05	14:15:00	0:15:00	56.2	61.0	53.8	58.3	57.5	56.7	56.1	55.0	54.1
15-Dec-05	14:30:00	0:15:00	56.7	64.7	53.8	61.1	58.0	56.8	56.0	55.0	54.1
15-Dec-05	14:45:00	0:15:00	56.6	61.7	53.9	60.1	58.2	56.9	56.3	55.1	54.1
15-Dec-05	15:00:00	0:15:00	56.2	60.3	53.8	58.7	57.7	56.7	56.0	54.9	54.1
15-Dec-05	15:15:00	0:15:00	55.9	59.7	53.7	58.5	57.4	56.5	55.7	54.5	53.8
15-Dec-05	15:30:00	0:15:00	56.5	63.9	53.5	62.0	58.6	56.4	55.6	54.3	53.5
15-Dec-05	15:45:00	0:15:00	56.2	63.6	53.7	60.4	57.6	56.5	55.7	54.6	54.0
15-Dec-05	16:00:00	0:15:00	55.7	59.5	53.3	57.9	56.9	56.1	55.5	54.3	53.4
15-Dec-05	16:15:00	0:15:00	60.1	71.8	53.2	68.9	64.2	59.0	56.1	54.5	54.0
15-Dec-05	16:30:00	0:15:00	56.4	66.1	53.6	61.8	57.7	56.5	55.7	54.5	54.0
15-Dec-05	16:45:00	0:15:00	56.8	64.3	53.5	60.8	59.0	57.2	56.2	54.8	54.0
15-Dec-05	17:00:00	0:15:00	57.4	69.3	53.8	66.0	58.0	56.7	55.8	54.8	54.0
15-Dec-05	17:15:00	0:15:00	56.3	62.9	53.7	60.5	58.2	56.7	55.8	54.6	54.0
15-Dec-05	17:30:00	0:15:00	55.5	59.4	53.8	57.5	56.7	55.9	55.4	54.4	54.0
15-Dec-05	17:45:00	0:15:00	57.6	69.4	53.7	66.6	57.6	55.9	55.5	54.4	54.0
15-Dec-05	18:00:00	0:15:00	56.5	63.9	53.9	61.4	57.9	56.6	55.9	55.0	54.1
15-Dec-05	18:15:00	0:15:00	56.2	62.3	53.8	59.6	57.7	56.6	55.8	55.0	54.1
15-Dec-05	18:30:00	0:15:00	56.1	64.9	54.3	59.2	56.9	56.3	55.7	55.0	54.3
15-Dec-05	18:45:00	0:15:00	56.5	64.2	53.4	61.5	59.0	56.7	55.6	54.3	53.4
15-Dec-05	19:00:00	0:15:00	55.6	59.4	53.7	58.0	56.9	56.1	55.5	54.3	53.7
15-Dec-05	19:15:00	0:15:00	57.4	70.2	53.2	64.1	59.8	57.1	56.1	54.1	53.2
15-Dec-05	19:30:00	0:15:00	54.7	58.2	52.7	56.9	55.9	55.0	54.6	53.6	52.8
15-Dec-05	19:45:00	0:15:00	55.3	61.4	53.1	59.6	56.9	55.5	54.7	53.5	53.1
15-Dec-05	20:00:00	0:15:00	55.3	59.6	53.4	57.9	56.9	55.8	54.9	54.1	53.4
15-Dec-05	20:15:00	0:15:00	56.2	66.6	54.0	60.0	57.3	56.3	55.6	54.5	54.0
15-Dec-05	20:30:00	0:15:00	60.7	77.3	53.7	71.4	61.1	56.8	55.9	54.5	54.0
15-Dec-05	20:45:00	0:15:00	55.9	60.1	54.2	57.0	56.8	56.4	55.8	55.0	54.2
15-Dec-05	21:00:00	0:15:00	56.2	59.8	54.5	57.8	57.0	56.6	56.1	55.2	54.5
15-Dec-05	21:15:00	0:15:00	57.0	59.3	54.7	58.8	58.3	57.6	56.9	55.9	55.1
15-Dec-05	21:30:00	0:15:00	57.8	61.9	55.2	59.9	59.3	58.3	57.6	56.2	55.2
15-Dec-05	21:45:00	0:15:00	57.7	60.9	54.6	60.4	59.6	58.5	57.4	56.1	55.2
15-Dec-05	22:00:00	0:15:00	56.8	59.7	54.8	59.0	57.9	57.3	56.6	55.6	55.0
15-Dec-05	22:15:00	0:15:00	57.3	60.0	55.0	58.9	58.6	57.9	57.2	56.1	55.2
15-Dec-05	22:30:00	0:15:00	56.6	59.1	54.9	58.3	57.8	57.0	56.6	55.8	55.1
15-Dec-05	22:45:00	0:15:00	56.6	59.1	55.2	57.9	57.6	56.9	56.6	55.8	55.2
15-Dec-05	23:00:00	0:15:00	57.5	66.7	54.5	63.6	58.6	57.5	56.7	55.5	54.9
15-Dec-05	23:15:00	0:15:00	58.3	73.1	53.3	66.9	57.5	56.6	55.9	54.6	53.3
15-Dec-05	23:30:00	0:15:00	54.6	56.6	52.9	56.0	55.7	54.9	54.5	53.4	53.0
15-Dec-05	23:45:00	0:15:00	54.8	66.0	52.5	57.6	56.3	55.0	54.3	53.1	52.5
16-Dec-05	0:00:00	0:15:00	54.6	62.9	52.1	56.6	55.8	55.1	54.5	53.1	52.1
16-Dec-05	0:15:00	0:15:00	54.0	56.3	52.6	55.7	54.9	54.6	54.0	53.1	52.6

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-9**
Description: **SBPP across Telegraph Creek (by future condos)**

Date	Start Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
16-Dec-05	0:30:00	0:15:00	54.8	60.9	52.4	57.6	56.4	55.4	54.6	53.2	52.4
16-Dec-05	0:45:00	0:15:00	54.9	58.1	52.5	56.9	56.2	55.5	54.8	53.6	52.7
16-Dec-05	1:00:00	0:15:00	55.5	62.2	52.7	58.3	57.3	56.2	55.2	53.7	52.9
16-Dec-05	1:15:00	0:15:00	54.9	63.9	52.1	57.9	56.5	55.3	54.5	53.1	52.1
16-Dec-05	1:30:00	0:15:00	55.2	59.2	52.2	57.6	56.8	55.9	55.0	53.4	52.3
16-Dec-05	1:45:00	0:15:00	55.6	60.2	52.0	58.0	57.2	56.3	55.5	53.7	52.5
16-Dec-05	2:00:00	0:15:00	55.9	68.4	52.6	58.9	57.5	56.5	55.6	54.0	53.0
16-Dec-05	2:15:00	0:15:00	55.9	59.7	52.8	58.4	57.6	56.6	55.8	54.2	53.1
16-Dec-05	2:30:00	0:15:00	55.4	63.3	52.2	57.7	56.9	56.1	55.2	53.8	52.7
16-Dec-05	2:45:00	0:15:00	56.0	66.3	52.8	59.7	57.6	56.5	55.6	54.2	53.1
16-Dec-05	3:00:00	0:15:00	55.5	63.5	52.8	58.3	57.0	56.0	55.2	54.0	53.0
16-Dec-05	3:15:00	0:15:00	56.7	67.0	52.0	59.9	58.4	57.2	56.3	54.4	52.9
16-Dec-05	3:30:00	0:15:00	58.7	62.2	55.2	61.3	60.6	59.6	58.5	56.5	55.4
16-Dec-05	3:45:00	0:15:00	58.9	65.2	55.9	61.2	60.3	59.4	58.7	57.3	56.3
16-Dec-05	4:00:00	0:15:00	57.7	60.3	55.5	59.7	58.9	58.2	57.5	56.3	55.7
16-Dec-05	4:15:00	0:15:00	58.6	61.5	56.6	60.7	59.9	59.2	58.5	57.3	57.0
16-Dec-05	4:30:00	0:15:00	59.2	62.4	55.9	61.6	60.8	59.9	59.2	57.5	56.4
16-Dec-05	4:45:00	0:15:00	59.8	63.1	56.5	61.7	60.9	60.3	59.7	58.5	57.2
16-Dec-05	5:00:00	0:15:00	59.5	62.6	57.1	61.7	60.8	59.9	59.4	58.2	57.3
16-Dec-05	5:15:00	0:15:00	60.1	62.8	57.7	61.9	61.3	60.6	60.0	58.8	58.0
16-Dec-05	5:30:00	0:15:00	60.7	63.2	58.9	62.4	61.8	61.3	60.7	59.8	59.1
16-Dec-05	5:45:00	0:15:00	61.1	63.2	59.4	62.7	61.9	61.6	61.0	60.1	59.4
16-Dec-05	6:00:00	0:15:00	61.5	63.4	59.6	62.9	62.7	62.0	61.5	60.4	59.7
16-Dec-05	6:15:00	0:15:00	60.1	63.2	58.4	61.8	60.9	60.6	60.0	59.1	58.4
16-Dec-05	6:30:00	0:15:00	60.8	63.3	59.1	62.7	61.9	61.3	60.7	59.8	59.1
16-Dec-05	6:45:00	0:15:00	61.4	64.2	60.0	62.9	62.4	61.8	61.4	60.3	60.0
16-Dec-05	7:00:00	0:15:00	63.3	77.2	59.7	68.7	64.6	62.9	61.9	60.7	60.0
16-Dec-05	7:15:00	0:15:00	63.7	66.2	61.2	65.7	65.0	64.3	63.5	62.3	61.3
16-Dec-05	7:30:00	0:15:00	61.7	64.7	59.3	63.8	62.9	62.3	61.5	60.2	59.3
16-Dec-05	7:45:00	0:15:00	62.0	65.5	59.3	63.9	63.4	62.6	61.9	60.4	59.9
16-Dec-05	8:00:00	0:15:00	61.2	63.8	58.6	62.9	62.4	61.7	61.2	60.2	59.2
16-Dec-05	8:15:00	0:15:00	60.7	63.7	58.1	62.5	61.9	61.4	60.7	59.4	58.8
16-Dec-05	8:30:00	0:15:00	61.3	65.7	59.3	62.9	62.6	61.8	61.3	60.1	59.3
16-Dec-05	8:45:00	0:15:00	61.8	64.8	59.0	63.8	63.1	62.4	61.7	60.5	59.5
16-Dec-05	9:00:00	0:15:00	62.8	68.4	60.1	65.4	64.3	63.3	62.5	61.2	60.2
16-Dec-05	9:15:00	0:15:00	63.8	76.9	59.2	66.8	65.0	63.9	63.1	61.3	60.0
16-Dec-05	9:30:00	0:15:00	60.5	63.5	57.4	62.8	61.9	61.0	60.4	59.2	57.9
16-Dec-05	9:45:00	0:15:00	60.2	62.9	57.6	61.9	61.4	60.7	60.1	59.0	57.8
16-Dec-05	10:00:00	0:15:00	60.3	64.8	58.1	62.7	61.6	60.8	60.2	59.1	58.2
16-Dec-05	10:15:00	0:15:00	59.9	64.8	57.5	61.9	61.0	60.5	59.7	58.5	57.7
16-Dec-05	10:30:00	0:15:00	59.1	61.9	56.7	61.5	60.7	59.7	58.9	57.4	56.7
16-Dec-05	10:45:00	0:15:00	58.1	61.0	55.2	60.4	59.7	58.8	57.9	56.6	55.3
16-Dec-05	11:00:00	0:15:00	58.9	70.1	55.6	64.2	59.9	58.9	58.4	57.2	56.3
16-Dec-05	11:15:00	0:15:00	58.9	60.8	56.3	60.7	59.9	59.4	58.8	57.5	56.9
16-Dec-05	11:30:00	0:15:00	66.6	85.2	55.5	75.7	65.9	59.7	58.7	57.5	56.6
16-Dec-05	11:45:00	0:15:00	58.5	62.3	56.4	60.8	60.0	59.0	58.4	57.2	56.4
16-Dec-05	12:00:00	0:15:00	59.7	70.8	57.3	63.2	60.8	59.8	59.1	58.1	57.3
16-Dec-05	12:15:00	0:15:00	59.2	64.0	56.8	61.3	60.4	59.7	59.0	58.0	57.1
16-Dec-05	12:30:00	0:15:00	59.1	62.3	56.1	60.9	60.4	59.7	59.1	58.0	57.0
16-Dec-05	12:45:00	0:11:45	59.9	65.8	56.7	63.0	61.2	60.4	59.7	58.3	57.2

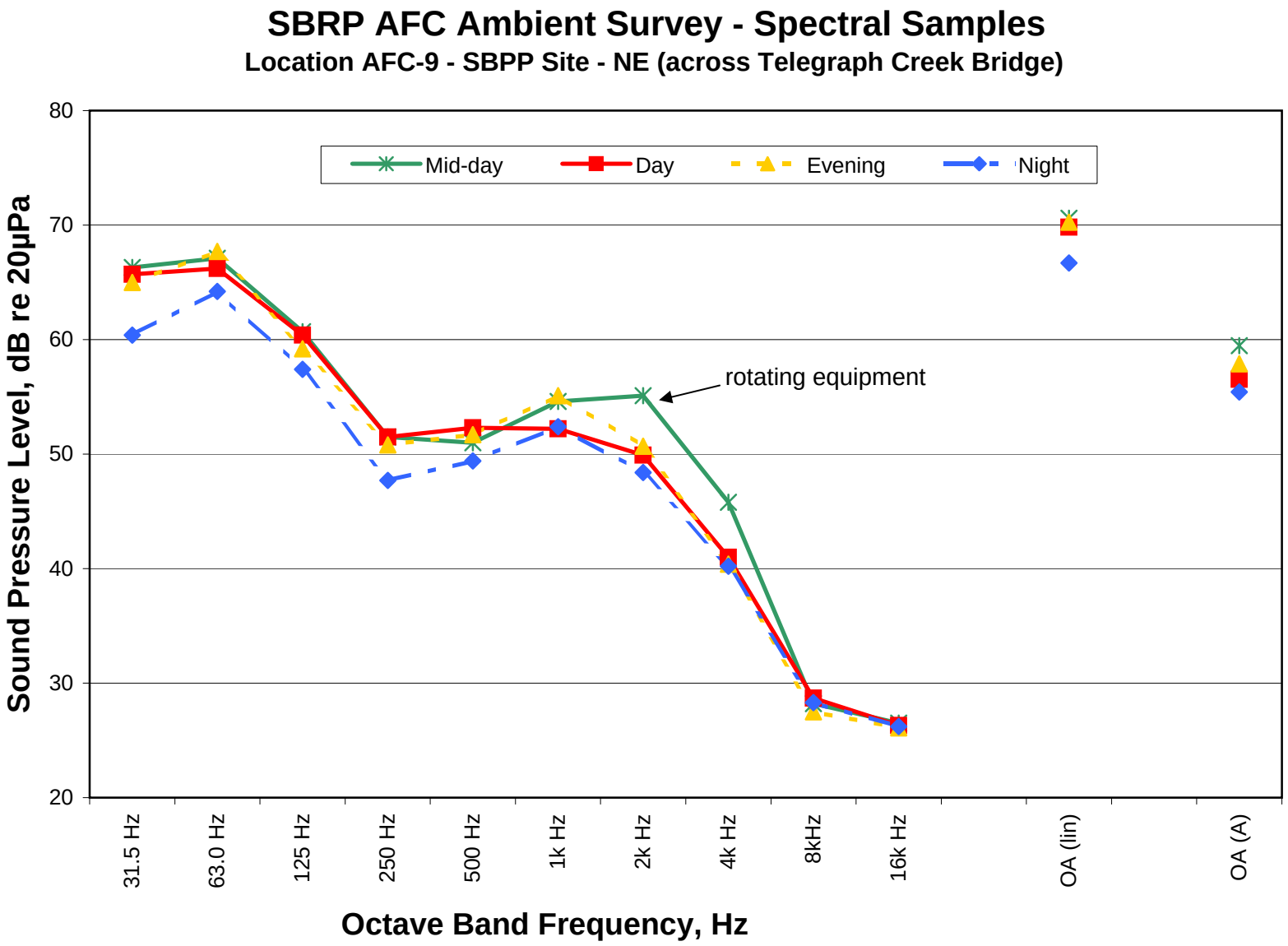

Figure 8.5a-30

Location	**AFC-9**
Brief Description	SBPP site; NE of plant
Full Description	On 115-acre SBPP industrial site; 305' northward from Telegraph Creek bridge; in line with Unit #2 stack; half-way between plant roads
Importance	Assessing SBPP noise to NE; at nearest point of potential BFMP MFR condo complexes
Long-term Monitoring Period	12/15/05 11:10 to 12/16/05 12:57
General Noise Environment	Predominantly the existing SBPP with additional contributions from traffic on Bay Blvd and the I-5, as well as wildlife and aircraft flyovers.
Latitude Longitude	N 32° 36.994' W 117° 05.598'
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking north (left) to east (right) through microphone position along SDG&E transmission line right-of-way (which runs generally parallel to I-5 freeway)

Looking northeast from Telegraph Creek Bridge toward microphone position and commercial uses beyond

Looking southwest through microphone position toward SBPP (Telegraph Creek Bridge is in center-right of picture)

LOCATION AFC-10

AFC-10	On 115-acre SBPP industrial site; in outdoor storage yard; in line with west end of small turbine yard and north end of fuel oil tank containment berm	Assessing SBPP noise to north; in potential BFMP RV development

Location AFC-10 is the fourth of four measurement locations that are on the current SBPP site and not in the surrounding community. As such, these are not currently used as community receptor locations, but were monitored as part of the AFC ambient survey to (a) help assess the noise emissions from the existing SBPP facility and (b) establish a record for future, potential land use development as part of the Port's Bay Front Master Plan.

The Location AFC-10 time-history record generally shows very little difference – typically only 3 dB – between the residual (L_{90}) and intrusive (L_8) noise levels, which is a result of a steady noise source. In this case, the steady source is the SBPP plant itself (due to the proximity of the measurement location and the lack of non-SBPP influences).

The residual (L_{90}) noise levels varied between 57 and 63 dBA for the 25-hour period. These variations are attributed to differences in unit-to-unit loading, steam exhausting events, and the fluctuating operations of individual equipment items (such as pumps or valves). The hourly L_{eq} values were in a tight range between 58 and 64 dBA, with three hours on the beginning and end of the sample period that had levels up to 67 dBA. These higher levels may be due to some noisy events taking place near the microphone, such as forklifts or trucks moving materials to and from this storage yard area. As at the other on-site locations, several daytime aircraft overflight events were noted which probably contributed to the short-term, peaks seen in the daytime L_8 metric.

The Location AFC-10 spectral record shows similar noise environments throughout the four timeframes, with little evidence of prominent tones from equipment or steam releases. The tone in the 60 Hz octave band, though, may be due to additional transmission line noise at this location (since it is quite close to the main SBPP switchyard). Field notes for all the short-term samples noted a general conglomeration of sources, with nothing at the plant being particularly distinct or dominant. The gas metering station was heard in all the sample sessions, but it was judged as not having a major influence on the measured noise levels. Likewise, the traffic on the I-5 freeway was noted as being audible in the distance during the evening and late-night sessions, but also not a contributor to the measured levels. The freeway noise was not discernible during daytime hours.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-10 - SBPP Storage Yard (by potential future RV park)

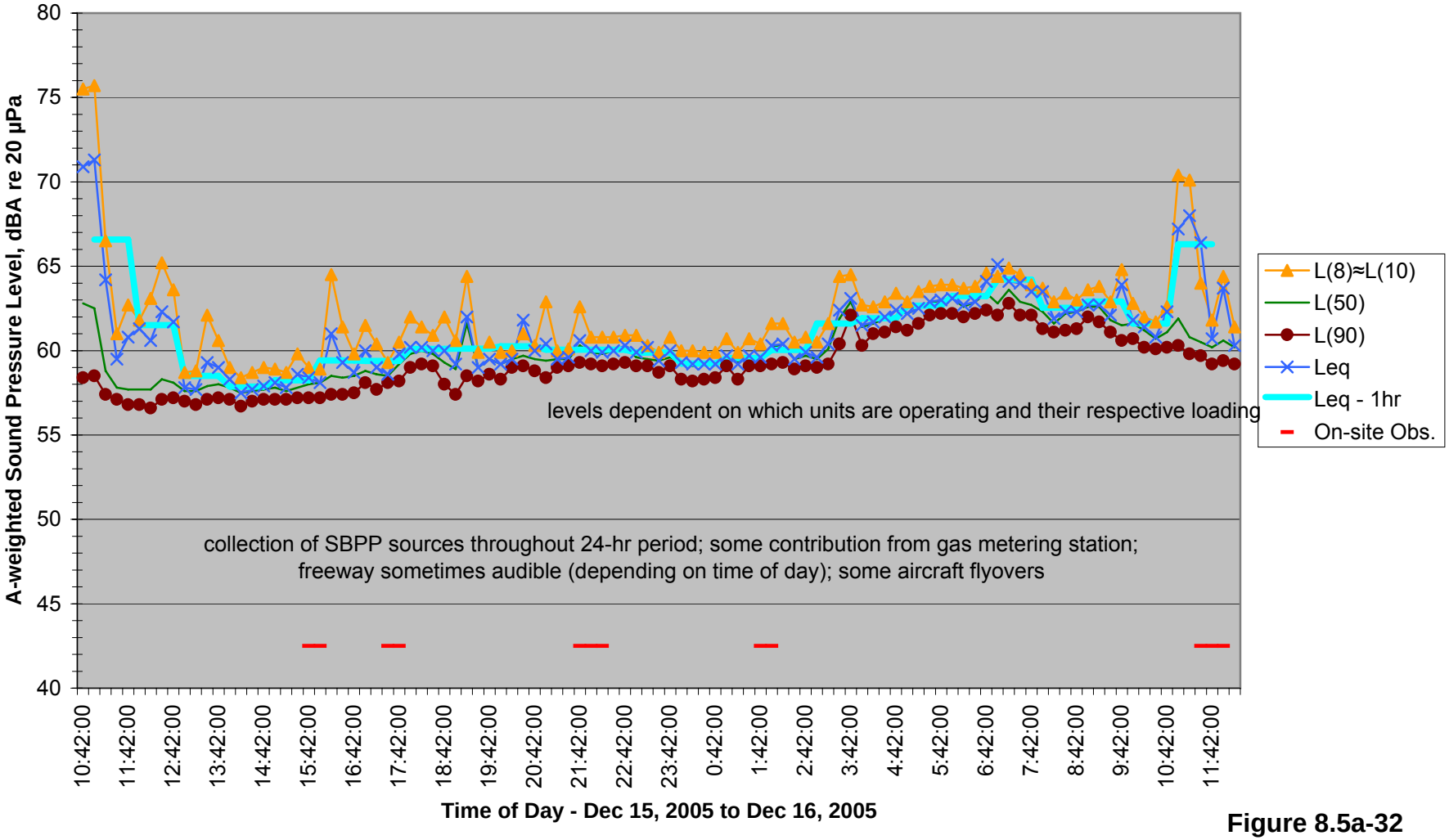

Figure 8.5a-32

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-10**
Description: **SBPP Storage Yard (by potential, future RV park)**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
15-Dec-05	10:41:43	16.2	65.7	72.1	57.2	71.7	70.2	66.8	63.6	58.8	57.2
15-Dec-05	10:42:00	900	70.9	87.4	57.6	81.1	75.5	67.5	62.8	58.4	57.6
15-Dec-05	10:57:00	900	71.3	89.5	57.6	81.2	75.7	68.3	62.5	58.5	57.6
15-Dec-05	11:12:00	900	64.2	83.5	56.6	73.3	66.5	61.0	58.8	57.4	56.8
15-Dec-05	11:27:00	900	59.5	70.5	56.5	66.8	61.0	58.6	57.8	57.1	56.5
15-Dec-05	11:42:00	900	60.8	74.3	56.0	70.2	62.7	58.4	57.7	56.8	56.1
15-Dec-05	11:57:00	900	61.3	76.9	56.3	72.3	61.8	58.6	57.7	56.8	56.3
15-Dec-05	12:12:00	900	60.6	77.6	56.2	68.7	63.1	58.6	57.7	56.6	56.2
15-Dec-05	12:27:00	900	62.3	77.2	55.9	72.0	65.2	59.7	58.3	57.1	56.1
15-Dec-05	12:42:00	900	61.7	79.2	56.6	70.5	63.6	59.0	58.1	57.2	57.0
15-Dec-05	12:57:00	900	57.8	64.0	56.3	60.7	58.7	57.9	57.6	57.0	56.3
15-Dec-05	13:12:00	900	57.7	60.0	56.3	59.3	58.8	58.1	57.6	56.8	56.3
15-Dec-05	13:27:00	900	59.3	70.2	56.5	65.7	62.1	58.6	57.9	57.1	56.5
15-Dec-05	13:42:00	900	59.0	68.7	56.7	65.3	60.6	58.8	58.0	57.2	57.0
15-Dec-05	13:57:00	900	58.3	66.4	56.3	61.5	59.0	58.4	57.8	57.1	56.3
15-Dec-05	14:12:00	900	57.5	59.6	56.3	58.9	58.4	57.8	57.5	56.7	56.3
15-Dec-05	14:27:00	900	57.7	63.7	56.0	59.6	58.7	57.9	57.6	57.0	56.1
15-Dec-05	14:42:00	900	57.9	62.1	56.3	60.0	59.0	58.3	57.7	57.1	56.3
15-Dec-05	14:57:00	900	58.1	61.2	56.6	59.9	58.9	58.4	57.8	57.1	56.6
15-Dec-05	15:12:00	900	57.8	61.0	56.6	59.4	58.7	57.9	57.6	57.1	56.6
15-Dec-05	15:27:00	900	58.6	64.8	56.7	63.2	59.8	58.5	57.8	57.2	57.0
15-Dec-05	15:42:00	900	58.4	65.7	56.9	62.0	59.0	58.6	58.0	57.2	57.0
15-Dec-05	15:57:00	900	58.1	59.6	57.1	59.0	58.9	58.6	58.1	57.2	57.1
15-Dec-05	16:12:00	900	61.0	71.5	57.2	69.3	64.5	59.3	58.5	57.4	57.2
15-Dec-05	16:27:00	900	59.3	66.9	57.2	65.5	61.4	58.8	58.4	57.4	57.2
15-Dec-05	16:42:00	900	58.7	65.2	57.2	61.6	59.8	58.9	58.5	57.5	57.2
15-Dec-05	16:57:00	900	60.0	71.3	57.6	65.8	61.5	59.6	58.8	58.1	57.6
15-Dec-05	17:12:00	900	59.0	64.1	57.2	62.5	60.4	59.1	58.6	57.7	57.2
15-Dec-05	17:27:00	900	58.6	59.9	57.7	59.8	59.3	58.8	58.5	58.1	57.7
15-Dec-05	17:42:00	900	59.8	69.9	57.8	65.1	60.5	59.7	59.2	58.2	58.0
15-Dec-05	17:57:00	900	60.2	64.9	58.4	63.3	62.0	60.7	59.8	59.0	58.4
15-Dec-05	18:12:00	900	60.2	63.5	58.6	62.2	61.4	60.6	60.0	59.2	58.6
15-Dec-05	18:27:00	900	60.0	61.9	58.6	61.4	60.9	60.4	59.8	59.1	58.7
15-Dec-05	18:42:00	900	60.0	67.3	57.1	63.7	62.0	60.6	59.3	58.0	57.1
15-Dec-05	18:57:00	900	59.2	65.1	56.9	63.1	60.6	59.7	58.9	57.4	57.0
15-Dec-05	19:12:00	900	62.0	69.9	57.5	66.4	64.4	63.0	61.6	58.5	57.8
15-Dec-05	19:27:00	900	59.0	60.6	57.8	60.0	59.9	59.5	59.0	58.2	58.0
15-Dec-05	19:42:00	900	59.5	63.7	58.4	62.4	60.5	59.8	59.5	58.6	58.4
15-Dec-05	19:57:00	900	59.2	61.3	58.3	60.0	59.9	59.6	59.2	58.3	58.3
15-Dec-05	20:12:00	900	59.5	61.1	58.6	60.8	60.0	59.8	59.5	59.0	58.6
15-Dec-05	20:27:00	900	61.8	75.9	59.0	71.1	61.0	60.0	59.7	59.1	59.0
15-Dec-05	20:42:00	900	60.0	69.8	58.5	65.1	60.3	59.8	59.5	58.8	58.5
15-Dec-05	20:57:00	900	60.4	65.8	58.4	63.9	62.9	61.3	59.4	58.4	58.4
15-Dec-05	21:12:00	900	59.5	60.6	58.7	60.6	60.0	59.8	59.5	59.0	58.7
15-Dec-05	21:27:00	900	59.6	60.3	58.7	60.3	60.1	59.8	59.5	59.1	58.7
15-Dec-05	21:42:00	900	60.6	65.0	59.1	63.8	62.6	60.8	60.3	59.3	59.1
15-Dec-05	21:57:00	900	60.0	61.1	59.1	61.0	60.8	60.5	59.9	59.2	59.1
15-Dec-05	22:12:00	900	59.9	61.2	58.8	61.0	60.8	60.3	59.8	59.1	59.0
15-Dec-05	22:27:00	900	60.0	61.2	59.2	61.0	60.8	60.5	60.0	59.2	59.2
15-Dec-05	22:42:00	900	60.3	61.6	59.1	61.6	60.9	60.7	60.2	59.3	59.1
15-Dec-05	22:57:00	900	59.9	64.2	58.7	62.8	60.9	59.9	59.6	59.1	58.7
15-Dec-05	23:12:00	900	60.2	68.5	58.8	66.5	60.3	59.8	59.5	59.1	58.9
15-Dec-05	23:27:00	900	59.4	60.6	58.5	60.5	59.9	59.7	59.4	58.7	58.5
15-Dec-05	23:42:00	900	60.0	71.6	58.8	62.4	60.8	60.0	59.6	59.1	59.0
15-Dec-05	23:57:00	900	59.3	61.6	58.2	60.7	60.0	59.7	59.3	58.3	58.2
16-Dec-05	0:12:00	900	59.2	61.0	58.2	60.7	60.0	59.6	59.1	58.2	58.2
16-Dec-05	0:27:00	900	59.2	60.8	58.1	60.0	59.9	59.6	59.2	58.3	58.1

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 15 - 16, 2005**
Location: **AFC-10**
Description: **SBPP Storage Yard (by potential, future RV park)**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
16-Dec-05	0:42:00	900	59.2	60.5	58.2	60.1	59.9	59.7	59.3	58.4	58.2
16-Dec-05	0:57:00	900	59.7	61.6	58.4	61.0	60.7	60.0	59.6	59.1	58.4
16-Dec-05	1:12:00	900	59.2	60.9	58.0	60.6	59.9	59.7	59.3	58.3	58.0
16-Dec-05	1:27:00	900	59.7	63.8	58.5	61.0	60.7	60.0	59.6	59.1	58.5
16-Dec-05	1:42:00	900	59.6	61.3	58.4	60.9	60.4	59.9	59.5	59.1	58.4
16-Dec-05	1:57:00	900	60.3	62.3	58.6	61.9	61.6	60.8	60.2	59.2	58.6
16-Dec-05	2:12:00	900	60.4	63.8	58.4	62.0	61.6	60.8	60.4	59.3	59.0
16-Dec-05	2:27:00	900	59.5	60.9	58.2	60.9	60.5	59.9	59.5	58.9	58.2
16-Dec-05	2:42:00	900	59.9	68.7	58.4	61.8	60.8	60.2	59.7	59.1	58.4
16-Dec-05	2:57:00	900	59.6	61.2	58.2	60.9	60.5	59.9	59.5	59.0	58.2
16-Dec-05	3:12:00	900	60.4	66.6	58.6	62.8	61.6	60.7	60.1	59.2	59.0
16-Dec-05	3:27:00	900	62.4	65.7	59.4	64.9	64.4	63.5	61.9	60.4	59.7
16-Dec-05	3:42:00	900	63.1	66.3	61.2	65.3	64.5	63.7	62.9	62.1	61.2
16-Dec-05	3:57:00	900	61.5	64.0	59.8	63.0	62.7	62.0	61.4	60.3	60.0
16-Dec-05	4:12:00	900	61.7	63.5	60.0	62.9	62.6	62.0	61.6	61.0	60.1
16-Dec-05	4:27:00	900	62.0	63.9	60.3	63.4	62.9	62.5	61.9	61.1	60.3
16-Dec-05	4:42:00	900	62.4	64.2	60.8	63.8	63.4	62.8	62.4	61.4	61.0
16-Dec-05	4:57:00	900	62.2	63.8	61.0	63.4	62.9	62.6	62.2	61.2	61.0
16-Dec-05	5:12:00	900	62.5	64.2	61.1	63.9	63.5	62.9	62.5	61.6	61.1
16-Dec-05	5:27:00	900	62.9	69.3	61.6	64.0	63.8	63.3	62.8	62.1	61.7
16-Dec-05	5:42:00	900	63.0	64.8	61.7	64.2	63.9	63.5	63.0	62.2	62.0
16-Dec-05	5:57:00	900	63.1	64.6	61.9	64.0	63.9	63.5	63.1	62.2	62.0
16-Dec-05	6:12:00	900	62.7	65.0	61.4	64.2	63.7	62.9	62.6	62.0	61.4
16-Dec-05	6:27:00	900	62.9	64.5	61.7	64.0	63.8	63.4	62.9	62.2	62.0
16-Dec-05	6:42:00	900	64.1	77.4	62.1	69.5	64.6	63.8	63.4	62.4	62.1
16-Dec-05	6:57:00	900	65.1	81.5	61.6	73.4	64.4	63.5	62.8	62.1	62.0
16-Dec-05	7:12:00	900	64.1	76.2	62.1	67.6	64.9	64.0	63.6	62.8	62.1
16-Dec-05	7:27:00	900	64.0	77.5	61.8	70.3	64.5	63.6	62.9	62.1	61.8
16-Dec-05	7:42:00	900	63.5	79.8	61.5	67.6	63.9	63.3	62.7	62.1	61.5
16-Dec-05	7:57:00	900	63.5	79.8	61.1	69.2	63.7	62.8	62.3	61.3	61.1
16-Dec-05	8:12:00	900	61.9	64.9	60.3	64.4	62.9	62.0	61.6	61.1	60.4
16-Dec-05	8:27:00	900	62.3	65.6	60.8	64.7	63.4	62.7	62.2	61.2	61.0
16-Dec-05	8:42:00	900	62.3	66.0	61.0	63.8	63.0	62.7	62.3	61.3	61.0
16-Dec-05	8:57:00	900	62.7	66.5	61.4	64.0	63.6	62.9	62.6	62.0	61.4
16-Dec-05	9:12:00	900	62.7	65.1	60.9	64.0	63.8	63.2	62.6	61.7	61.1
16-Dec-05	9:27:00	900	62.1	73.2	60.1	63.9	62.9	62.3	61.8	61.1	60.2
16-Dec-05	9:42:00	900	63.9	78.2	60.1	72.7	64.8	62.0	61.5	60.6	60.1
16-Dec-05	9:57:00	900	61.8	65.8	59.5	63.8	62.8	62.0	61.6	60.7	60.0
16-Dec-05	10:12:00	900	61.4	67.3	59.8	64.2	62.0	61.7	61.2	60.2	60.0
16-Dec-05	10:27:00	900	60.8	62.1	59.7	61.9	61.7	61.2	60.7	60.1	59.7
16-Dec-05	10:42:00	900	62.3	77.1	59.4	69.0	62.6	61.7	61.1	60.2	59.4
16-Dec-05	10:57:00	900	67.2	84.7	59.2	77.0	70.4	64.7	61.9	60.3	59.9
16-Dec-05	11:12:00	900	68.0	92.5	59.4	75.9	70.1	63.0	60.8	59.8	59.4
16-Dec-05	11:27:00	900	66.4	84.6	58.5	77.8	64.0	60.9	60.5	59.7	59.0
16-Dec-05	11:42:00	900	60.7	69.0	58.5	65.0	61.8	60.8	60.2	59.2	58.5
16-Dec-05	11:57:00	900	63.7	81.2	58.4	72.0	64.4	61.4	60.6	59.4	58.6
16-Dec-05	12:12:00	900	60.3	64.8	58.4	62.0	61.4	60.7	60.2	59.2	58.4
16-Dec-05	12:27:00	841.8	60.1	63.3	58.2	61.8	61.2	60.6	60.0	59.1	58.3

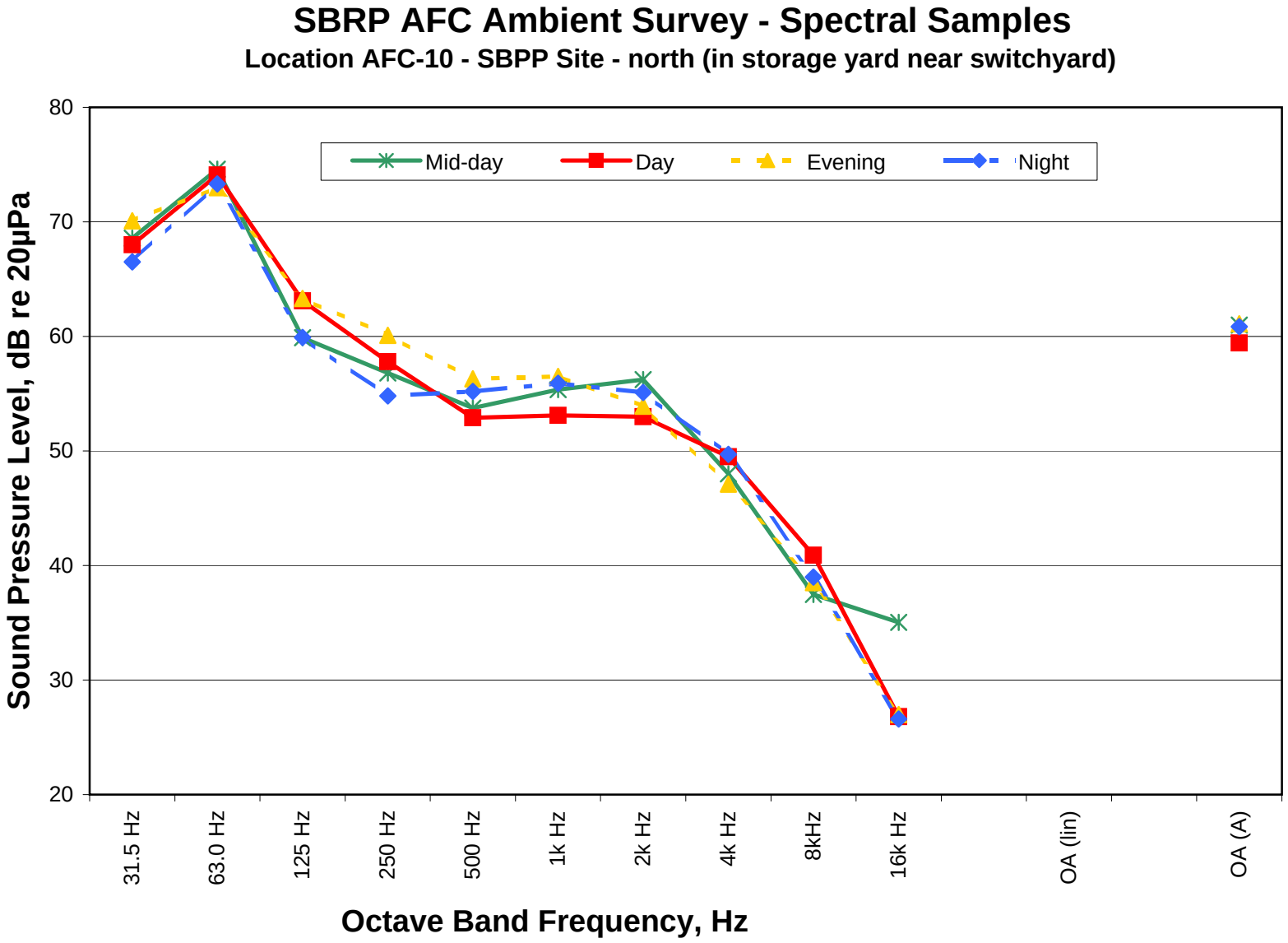

Figure 8.5a-33

Location	**AFC-10**
Brief Description	SBPP site; north of plant
Full Description	On 115-acre SBPP industrial site; in outdoor storage yard; in line with west end of small turbine yard and north end of fuel oil tank containment berm
Importance	Assessing SBPP noise to north; in potential BFMP RV development
Long-term Monitoring Period	12/15/05 10:42 to 12/16/05 12:41
General Noise Environment	Predominantly the existing SBPP with additional contributions from a gas metering station, wildlife, aircraft flyovers, and, in the distance, the I-5 traffic.
Latitude Longitude	N 32° 37.000’ W 117° 05.808’
Source: Alliance Acoustical Consultants, Inc., 2005	

Looking southward through microphone position at SBPP (SBEF would be farther south)

Short-term mic **long-term mic**

Looking southeast through microphone positions at SBPP (Units 4 through 1, left to right)

Looking southward at west end of Unit #1; typical steam venting noise sources

LOCATION AFC-11

AFC-11	Chula Vista Marina View Park; at water side of park (toward plant); adjacent to south-end picnic area (near parking lot); at tree line next to water's edge	Closest recreational use

The Location AFC-11 time-history record indicates a rather unusual diurnal pattern in that there is relatively little variation in noise levels between about 9 a.m. and midnight, a clear decrease in levels for only two hours, then a steady increase in noise up to the noisiest periods of the survey, which were recorded between approximately 4 a.m. and 8 a.m. Some of this may be explained by increases in traffic on the I-5, which seems to start around 4 a.m. (given the results from other survey locations dominated by I-5 noise), but the differences in the L_{90} levels between 2 p.m. and 6 a.m. (around 10 dB) is unexpected. Some of the late-night/early-morning noise levels can be attributed to sprinkler systems coming on and off throughout the park between 1 and 3 a.m.; some of which were close to (but not on) the long-term monitor location.

Residual (background) noise levels (L_{90}) were between 47 and 53 dBA between 9 a.m. and 9 p.m., rose slightly to 53 to 55 dBA to 11 p.m., then dropped to 44 to 47 dBA between midnight and 2 a.m. Thereafter, the L_{90} levels rose quickly to 52 to 58 dBA between 4 a.m. and 9 a.m., then decreased somewhat to start a new cycle (of between 47 and 53 dBA during the majority of the daytime).

The hourly L_{eq} values were more stable during the daytime; staying in the range of 51 to 57 dBA. The lowest L_{eq} values (49 dBA) were around 2 a.m.

The Location AFC-11 spectral records show no distinct noise sources and very little variation in the spectral noise environment throughout the day and night. The associated A-wtd levels are with 2 dB of each other, regardless of time of day.

From field observations at this location, the dominant source seemed to shift back and forth between the traffic noise from the I-5 freeway and the SBPP facility. At all times both sources were clearly audible, but the SBPP was subjectively judged to be prominent during the daytime, while the freeway as noted as being the more controlling source during the evening and late-night observation times. Train operations were noted as being audible in the distance around 3 a.m., but were not deemed to be influencing the measured noise levels.

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SBRP AFC Ambient Survey - Sound Level History Record

Location AFC-11 - Chula Vista Marina Park, toward west end parking lot

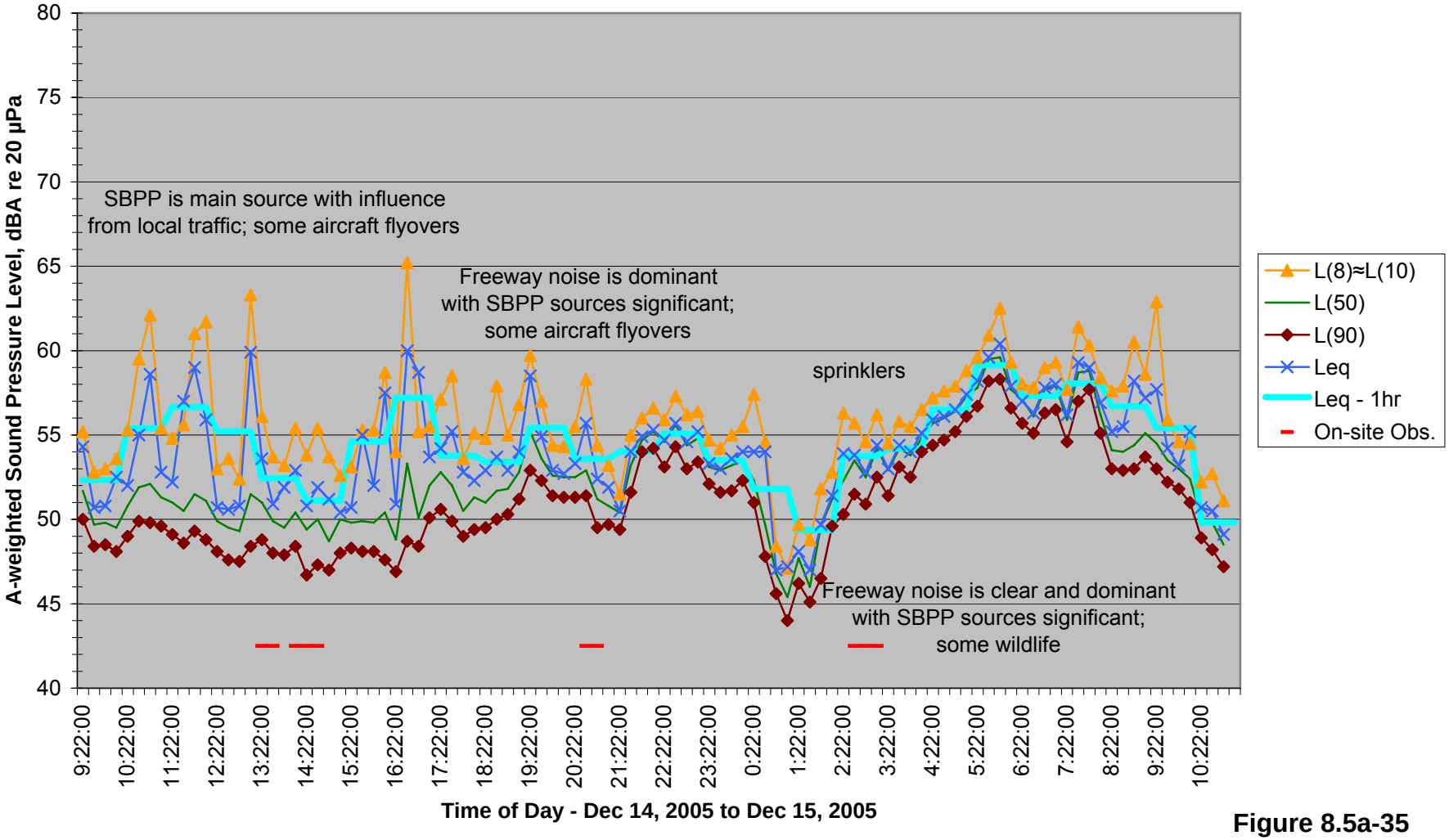

Figure 8.5a-35

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 14 - 15, 2005**
Location: **AFC-11**
Description: **Chula Vista Marina Park, toward west end parking lot**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
14-Dec-05	9:20:50	9.7	53.8	54.3	53.6	54.3	54.3	53.9	53.6	53.6	53.6
14-Dec-05	9:21:00	3.3	56.4	57.4	54.2	57.4	57.4	57.4	56.5	54.5	54.2
14-Dec-05	9:21:25	34.9	59.4	65.8	54.4	64.0	63.1	60.4	58.1	55.3	54.4
14-Dec-05	9:22:00	900	54.3	74.1	48.5	61.1	55.2	53.2	51.7	50.0	48.9
14-Dec-05	9:37:00	900	50.7	60.0	47.7	56.7	52.8	50.7	49.7	48.4	48.0
14-Dec-05	9:52:00	900	50.8	58.2	47.6	57.1	53.0	50.8	49.8	48.5	48.0
14-Dec-05	10:07:00	900	52.5	67.4	46.3	60.8	53.6	50.9	49.5	48.1	46.7
14-Dec-05	10:22:00	900	52.0	60.4	47.8	56.9	55.3	52.4	50.8	49.0	48.1
14-Dec-05	10:37:00	900	55.0	66.3	48.4	61.9	59.5	54.6	51.9	49.9	49.0
14-Dec-05	10:52:00	900	58.6	75.1	47.4	67.9	62.1	54.2	52.1	49.8	48.2
14-Dec-05	11:07:00	900	52.8	64.1	46.9	59.0	55.4	52.6	51.3	49.6	47.7
14-Dec-05	11:22:00	900	52.2	62.2	46.8	57.9	54.8	52.5	51.0	49.1	47.5
14-Dec-05	11:37:00	900	57.0	73.9	46.9	68.3	55.6	52.4	50.5	48.6	47.4
14-Dec-05	11:52:00	900	59.0	75.4	47.8	70.2	61.0	53.6	51.5	49.3	48.3
14-Dec-05	12:07:00	900	55.9	66.0	47.5	64.2	61.7	54.5	51.1	48.8	47.6
14-Dec-05	12:22:00	900	50.7	59.2	46.1	55.5	53.0	50.9	49.9	48.1	46.5
14-Dec-05	12:37:00	900	50.6	59.1	45.8	55.8	53.6	50.8	49.5	47.6	46.3
14-Dec-05	12:52:00	900	50.8	63.0	46.4	58.2	52.4	50.5	49.3	47.5	46.4
14-Dec-05	13:07:00	900	59.9	75.2	46.0	71.3	63.3	54.9	51.5	48.4	46.8
14-Dec-05	13:22:00	900	53.6	67.6	46.6	60.9	56.1	52.8	51.0	48.8	47.4
14-Dec-05	13:37:00	900	50.9	59.4	46.6	56.1	53.7	51.4	49.9	48.0	47.0
14-Dec-05	13:52:00	900	51.9	64.9	46.1	61.9	53.2	50.7	49.5	47.9	46.9
14-Dec-05	14:07:00	900	52.9	68.3	46.5	61.6	55.4	51.8	50.4	48.4	47.1
14-Dec-05	14:22:00	900	50.8	60.2	45.2	57.3	53.8	51.3	49.4	46.7	45.4
14-Dec-05	14:37:00	900	51.9	62.1	46.2	58.9	55.4	52.4	50.0	47.3	46.2
14-Dec-05	14:52:00	900	51.2	66.2	45.4	59.0	53.7	50.2	48.7	47.0	46.0
14-Dec-05	15:07:00	900	50.4	56.9	46.3	53.9	52.6	51.1	50.0	48.0	46.5
14-Dec-05	15:22:00	900	50.7	60.3	47.2	55.9	53.1	50.9	49.8	48.3	47.4
14-Dec-05	15:37:00	900	55.0	71.8	47.0	65.1	55.3	51.3	49.9	48.1	47.1
14-Dec-05	15:52:00	900	52.0	63.6	47.1	60.0	55.3	51.4	49.8	48.1	47.1
14-Dec-05	16:07:00	900	57.5	73.2	46.1	69.5	58.7	53.0	50.4	47.6	46.4
14-Dec-05	16:22:00	900	50.9	64.1	46.0	58.1	54.0	50.7	48.8	46.9	46.1
14-Dec-05	16:37:00	900	60.0	70.7	46.9	69.8	65.2	58.3	53.3	48.7	47.2
14-Dec-05	16:52:00	900	58.7	81.3	47.3	63.6	55.2	51.6	50.1	48.4	47.3
14-Dec-05	17:07:00	900	53.7	67.0	48.4	60.9	55.5	53.3	52.0	50.1	49.0
14-Dec-05	17:22:00	900	54.2	68.1	48.5	60.1	57.1	54.5	52.8	50.6	49.2
14-Dec-05	17:37:00	900	55.2	68.6	47.9	63.9	58.5	53.6	52.0	49.9	48.6
14-Dec-05	17:52:00	900	52.8	68.0	47.6	60.2	53.6	51.5	50.5	49.0	48.1
14-Dec-05	18:07:00	900	52.3	60.0	47.5	57.0	55.1	52.9	51.3	49.4	48.1
14-Dec-05	18:22:00	900	52.9	65.7	48.0	60.1	54.8	52.3	51.0	49.5	48.4
14-Dec-05	18:37:00	900	53.7	61.0	48.7	59.8	57.9	53.8	51.7	50.0	49.1
14-Dec-05	18:52:00	900	52.9	65.4	49.4	58.3	55.0	52.9	51.8	50.3	49.4
14-Dec-05	19:07:00	900	54.0	63.7	49.1	59.6	56.8	54.0	52.8	51.2	50.0
14-Dec-05	19:22:00	900	58.5	72.7	51.5	68.8	59.7	56.5	55.2	52.9	52.0
14-Dec-05	19:37:00	900	54.9	66.8	51.4	61.4	57.0	54.7	53.6	52.3	51.4
14-Dec-05	19:52:00	900	52.9	57.5	50.6	56.4	54.4	53.3	52.6	51.4	50.6
14-Dec-05	20:07:00	900	52.7	57.5	50.6	55.7	54.3	53.1	52.5	51.3	50.9
14-Dec-05	20:22:00	900	53.3	61.3	50.8	58.0	55.5	53.4	52.5	51.3	51.0
14-Dec-05	20:37:00	900	55.7	67.0	50.5	64.9	58.3	53.8	52.9	51.4	50.5
14-Dec-05	20:52:00	900	52.4	62.7	48.9	59.2	54.4	52.4	51.2	49.5	49.0
14-Dec-05	21:07:00	900	51.9	61.5	49.0	58.2	53.2	51.6	50.8	49.7	49.1
14-Dec-05	21:22:00	900	50.5	58.2	49.2	52.1	51.5	50.8	50.4	49.4	49.2
14-Dec-05	21:37:00	900	54.0	63.3	50.8	61.3	55.0	53.8	53.2	51.6	51.0
14-Dec-05	21:52:00	900	54.9	58.3	53.2	56.8	56.0	55.4	54.7	54.0	53.2
14-Dec-05	22:07:00	900	55.3	58.2	53.6	57.4	56.6	55.8	55.2	54.2	53.9
14-Dec-05	22:22:00	900	54.7	61.0	51.9	57.1	55.9	55.4	54.6	53.1	52.1

Client: **LSP South Bay, LLC**
Project: **South Bay Replacement Project (SBRP) AFC**
Study: **Baseline Ambient for AFC document**
Survey Dates: **Dec 14 - 15, 2005**
Location: **AFC-11**
Description: **Chula Vista Marina Park, toward west end parking lot**

Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)≈L(10)	L(25)	L(50)	L(90)	L(99)
14-Dec-05	22:37:00	900	55.7	58.6	53.3	57.9	57.3	56.5	55.6	54.3	53.4
14-Dec-05	22:52:00	900	54.6	58.7	51.8	57.3	56.2	55.2	54.4	53.0	52.1
14-Dec-05	23:07:00	900	55.2	64.5	52.2	58.5	56.4	55.6	54.8	53.4	52.4
14-Dec-05	23:22:00	900	53.3	56.1	50.7	55.1	54.7	53.8	53.1	52.1	51.1
14-Dec-05	23:37:00	900	53.0	56.3	49.8	54.9	54.2	53.6	52.9	51.6	50.3
14-Dec-05	23:52:00	900	53.6	66.4	49.9	55.9	55.0	54.0	53.2	51.7	50.3
15-Dec-05	0:07:00	900	54.0	61.0	51.7	57.6	55.5	54.3	53.5	52.3	52.0
15-Dec-05	0:22:00	900	54.0	63.0	50.2	61.2	57.4	53.5	52.3	51.0	50.2
15-Dec-05	0:37:00	900	54.0	68.9	46.8	65.0	54.6	50.7	49.7	47.8	47.1
15-Dec-05	0:52:00	900	47.0	52.4	45.3	49.4	48.4	47.5	46.8	45.6	45.3
15-Dec-05	1:07:00	900	47.2	62.1	42.8	55.7	47.1	46.4	45.4	44.0	43.1
15-Dec-05	1:22:00	900	48.1	53.4	44.6	50.9	49.7	48.8	47.7	46.2	45.2
15-Dec-05	1:37:00	900	47.0	60.1	44.1	52.2	48.8	46.8	46.0	45.1	44.3
15-Dec-05	1:52:00	900	49.7	55.1	45.8	52.9	51.8	50.7	49.6	46.5	46.0
15-Dec-05	2:07:00	900	51.4	56.7	48.2	54.2	52.8	51.8	51.2	49.6	48.2
15-Dec-05	2:22:00	900	53.9	66.3	48.3	60.5	56.3	53.8	52.3	50.3	48.7
15-Dec-05	2:37:00	900	53.8	58.3	50.3	56.7	55.7	54.6	53.5	51.5	50.3
15-Dec-05	2:52:00	900	52.8	59.2	49.0	56.1	54.6	53.5	52.5	50.9	49.3
15-Dec-05	3:07:00	900	54.4	58.8	50.6	57.1	56.2	55.0	54.2	52.5	51.1
15-Dec-05	3:22:00	900	53.0	58.3	50.2	55.4	54.5	53.6	52.9	51.4	50.3
15-Dec-05	3:37:00	900	54.4	58.2	52.2	56.8	55.8	54.9	54.2	53.1	52.2
15-Dec-05	3:52:00	900	54.0	57.9	51.3	56.4	55.5	54.6	53.8	52.5	51.4
15-Dec-05	4:07:00	900	55.1	58.7	52.8	57.6	56.5	55.6	54.8	54.0	53.1
15-Dec-05	4:22:00	900	55.9	60.7	53.4	58.2	57.2	56.5	55.7	54.4	53.5
15-Dec-05	4:37:00	900	56.1	59.2	53.9	58.3	57.6	56.7	56.0	54.7	54.1
15-Dec-05	4:52:00	900	56.5	59.8	54.1	58.7	57.9	57.0	56.4	55.2	54.3
15-Dec-05	5:07:00	900	57.4	61.9	55.0	59.8	58.8	57.9	57.3	56.1	55.1
15-Dec-05	5:22:00	900	58.2	64.3	55.7	61.5	59.6	58.5	57.8	56.7	56.0
15-Dec-05	5:37:00	900	59.6	62.4	56.9	61.6	60.9	60.3	59.5	58.2	57.2
15-Dec-05	5:52:00	900	60.4	68.4	57.6	64.8	62.5	60.6	59.6	58.3	57.6
15-Dec-05	6:07:00	900	57.9	61.3	56.2	60.2	59.3	58.4	57.7	56.6	56.2
15-Dec-05	6:22:00	900	57.0	59.3	54.6	58.7	58.0	57.6	57.1	55.7	55.0
15-Dec-05	6:37:00	900	56.3	59.8	54.4	58.7	57.8	56.8	56.1	55.1	54.4
15-Dec-05	6:52:00	900	57.8	63.6	55.6	59.9	59.0	58.4	57.7	56.3	55.6
15-Dec-05	7:07:00	900	58.0	63.5	55.6	60.3	59.3	58.6	57.9	56.5	55.6
15-Dec-05	7:22:00	900	56.2	61.0	53.6	58.9	57.7	56.7	55.9	54.6	54.0
15-Dec-05	7:37:00	900	59.3	65.6	55.9	62.4	61.4	60.1	58.7	57.0	56.1
15-Dec-05	7:52:00	900	59.0	62.6	55.8	61.5	60.3	59.5	58.8	57.7	56.2
15-Dec-05	8:07:00	900	56.9	66.4	53.9	62.1	58.4	56.9	56.2	55.1	54.1
15-Dec-05	8:22:00	900	55.2	64.5	52.2	60.5	57.6	55.2	54.1	53.0	52.2
15-Dec-05	8:37:00	900	55.5	66.4	52.0	62.5	57.9	54.9	54.0	52.9	52.1
15-Dec-05	8:52:00	900	58.2	72.6	51.9	68.5	60.5	55.5	54.4	53.0	52.1
15-Dec-05	9:07:00	900	57.2	69.7	52.8	65.9	58.6	56.1	55.1	53.7	53.0
15-Dec-05	9:22:00	900	57.7	70.1	52.0	65.6	62.9	56.4	54.5	53.0	52.1
15-Dec-05	9:37:00	900	54.2	62.6	51.5	58.8	55.9	54.4	53.5	52.2	51.5
15-Dec-05	9:52:00	900	53.2	56.7	50.9	55.0	54.6	53.8	53.0	51.8	51.1
15-Dec-05	10:07:00	900	55.2	77.8	49.9	58.3	54.5	53.3	52.4	51.0	50.1
15-Dec-05	10:22:00	900	50.7	59.2	47.9	55.2	52.2	50.8	50.1	48.9	48.1
15-Dec-05	10:37:00	900	50.5	59.1	47.4	55.1	52.7	51.0	49.8	48.2	47.4
15-Dec-05	10:52:00	900	49.1	55.1	46.4	53.3	51.1	49.4	48.5	47.2	46.4
15-Dec-05	11:07:00	712.5	48.6	59.4	45.7	53.1	50.0	48.7	47.9	46.6	46.0
15-Dec-05	11:19:19	29	89.4	92.3	44.8	92.3	92.3	92.3	91.0	54.5	45.6

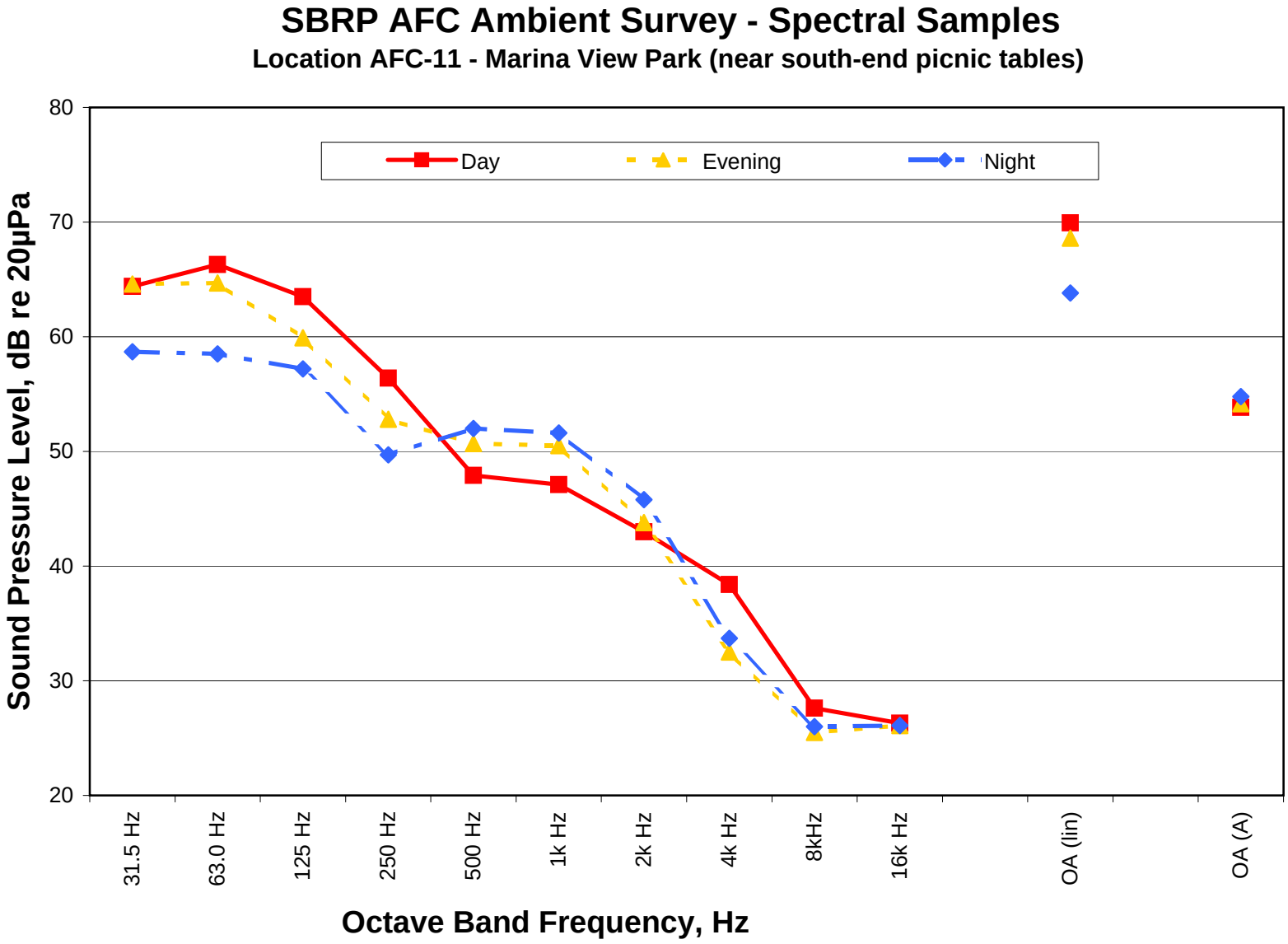

Figure 8.5a-36

Location	**AFC-11**
Brief Description	Marina View Park
Full Description	Chula Vista Marina View Park; at water side of park (toward plant); adjacent to south-end picnic area (near parking lot); at tree line next to water's edge
Importance	Closest recreational use
Long-term Monitoring Period	12/14/05 09:20 to 12/15/05 11:20
General Noise Environment	Mostly the existing SBPP with additional contributions from vehicle traffic on Marina Parkway, wildlife, and activities at the Marina facility.
Latitude Longitude	N 32° 37.215' W 117° 05.904'
Source: Alliance Acoustical Consultants, Inc., 2005	

Panoramic view looking SE (left) to SW (right) from microphone position toward SBPP (due south in center of picture)

Looking west from microphone position, through park toward Chula Vista Marina (beyond trees)

Looking northeast at microphone positions

Looking south through microphone positions at SBPP