Wilhelm,Gayle

From: James R. Carpenter [jim@carpenteraustin.com]
Sent: Wednesday, March 25, 2009 6:17 PM
To: Pina, William; Dildy, Lee ; Beckett, Clara ; McDonald, Ronnie ; Klaus, John
Cc: Wilhelm, Gayle
Subject: Central Texas Airport - 1st Email of 2
Attachments: OSHA-Noise-Level-Comparisons.pdf; Figure 2 Existing Land Use with Noise contours.pdf

Judge and Commissioners;
I am forwarding information that we will be making public in two emails due to the file size. The above files are:

1. The OSHA Noise Level table depicting the different levels of sound/noise and a corresponding example of an equivalent noise;
2. The noise contours map for the Central Texas Airport.

The noise contour map demonstrates that all of 65+ DNL noise is within the boundaries of the property.

The 60 DNL extends slightly beyond the boundaries of the property which is compared by OSHA as the equivalent of "Normal conversation (3-5 feet), sewing machine, typewriter."

The 50 DNL is applicable beyond that zone boundary which is compared by OSHA as the equivalent of a "Quiet" sound level, "Quiet suburb, conversation at home, Private office."

We believe these exhibits should eliminate the concerns from area residents, and dismiss the expressed concerns about adverse impacts upon the Hyatt or Cedar Creek High School. However, I would point out that the Hyatt is subject to existing noise problems from the power mowers and other equipment used in the maintenance of the golf course and grounds and the high school suffers from freeway traffic.

The overall consideration for all of these noise levels, whether it be from aircraft , power mowers or freeway traffic, is that these comparisons assume an open outdoor environment. For folks inside houses or buildings, all but the power mowers would be reduced to levels that are not noticeable.

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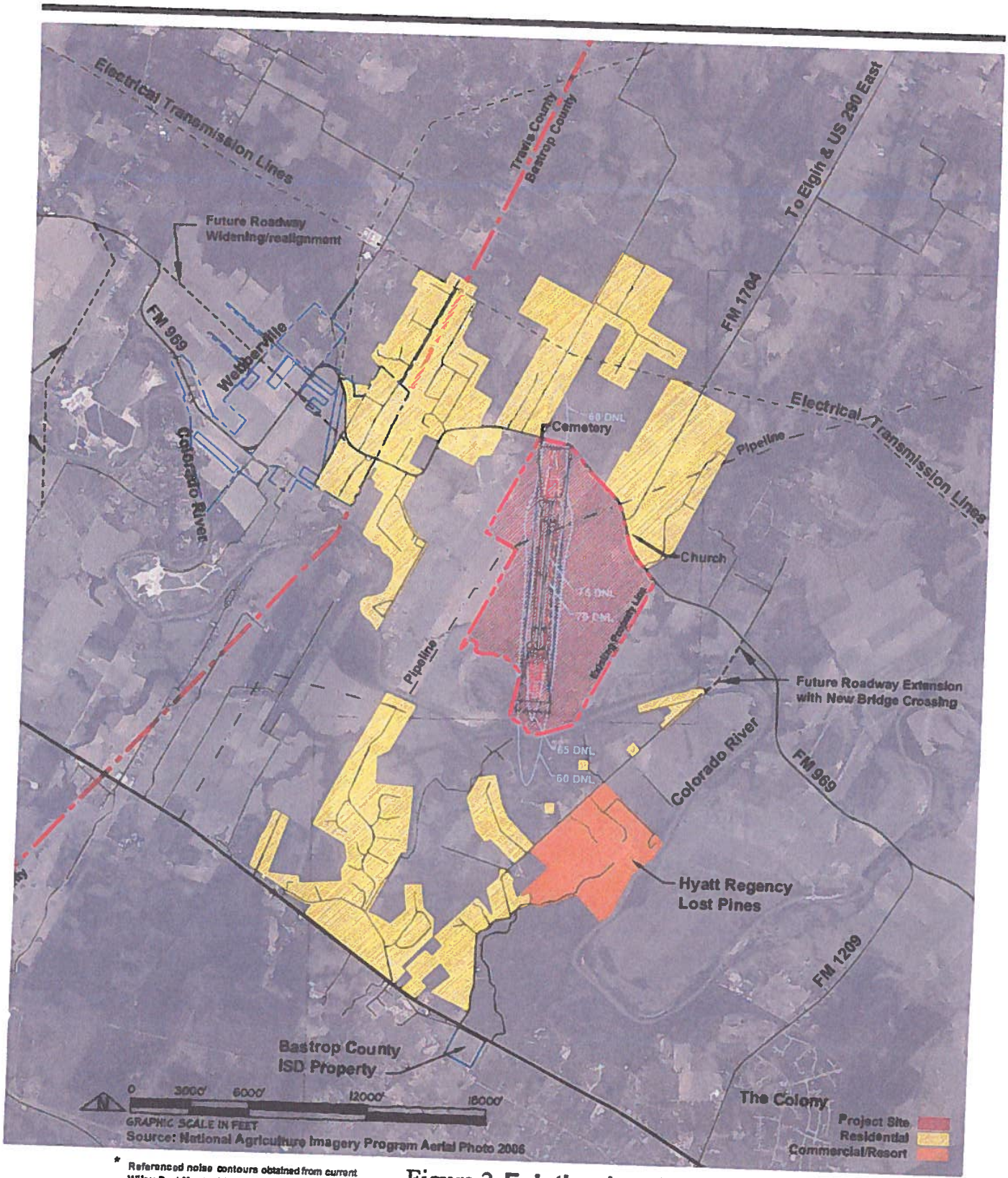
Quiet Solution

Maximum Exposure per day (OSHA)	Sound level	Decibel Level	Examples
	No Sound	0	Threshold of hearing...essentially no sound
		10	Breathing
		15	A soft whisper in someone's ear.
	Very Quiet	20	Whisper, rustling leaves
		25	Recording Studio
		30	Quiet rural area, Very quiet library.
		40	Very Quiet Residence
		45	Typical neighborhood.
	Quiet	50	Quiet suburb, conversation at home, Private office
		60	Normal conversation (3-5 feet), sewing machine, typewriter.
	Annoying	70	Freeway Traffic at 50 feet, vacuum cleaner
		75	Typical car interior on highway
	Loud	80	Garbage disposal, dishwasher, average factory, Telephone dial tone, Noisy office
16 hours		85	City Traffic (inside car).
8 Hours		90	Power drill, shop tools, Busy urban street, diesel truck, food blender
6 Hours		92	Clarinet, Oboe at 10 feet
4 Hours		95	Subway train at 200 feet
3 Hours		97	French Horn at 10 feet
2 Hours	Very Loud	100	Jet takeoff 1000 feet, Outboard motor, farm tractor, garbage truck, Very heavy Traffic
1.5 Hours		102	Motorcycle
1 Hour		105	Power mower
		108	Home Theater (loud peaks)
0.5 Hours		110	Chainsaw, pneumatic drill, typical rock concert, Steel Mill, riveting, auto horn at 3 feet
0.25 Hours		115	Jackhammer
0 Hours	Pain threshold	120	Loud thunderclap, typical live rock music
Hearing damage occurring		125	Pneumatic riveter at 4 feet
Ear drum distortion		130	Jet takeoff (300 feet), Noise level during a stock car race.
Permanent hearing damage		132	Very loud rock concert, 50 feet in front of speakers
		140	Gun muzzle blast
		140	Prop aircraft on takeoff, gun muzzle blast, aircraft carrier deck, jet engine at 100 feet
Eardrum rupture		150	Jet takeoff 75 feet
		155	Shot from a handgun (.38 or .44) at 1 foot
		160	Jet aircraft on Takeoff at 30 feet
Immediate death of tissue		180	Jet engine at 1 foot
		194	Loudest sound in air, air particle distortion (sonic boom)



* Referenced noise contours obtained from current Wiley Post Master Plan (79,998 total operations/ 7,850 business jet operations to illustrate conceptual noise footprint).

Figure 2 **Existing Land Use Considerations with Representative* DNL Noise Contours**