Polysonics Corp.

Acoustical and Communications Consulting

www.polysonics-corp.com

FAX TRANSMISSION COVER SHEET

TO: David Konapelsky **DATE:** 04.05.17

AT: GTM Architects

FAX: 301-942-3929 **PHONE:** 301-942-9062

Pages: 3, Including Cover

FROM: Peter Brenton
EMAIL: peterb@polysonics-corp.com

Also Sent By:

RE: MacArthur Boulevard, 4925

If you do not receive all pages indicated, please call Rhonda at 301-874-2600

COMMENTS:
HVAC equipment - measured noise levels

PCB

BZA
Case No. 17164
Exhibit No. 30

Corporate Headquarters
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Washington, DC 20016
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Board of Zoning Adjustment
District of Columbia
CASE NO. 17164
EXHIBIT NO. 30

Polysonics Corp.
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17 May 2004

Mr. Dan Lutsky
Saint Patrick's Episcopal School
4700 Whitehaven Parkway, NW
Washington, DC 20007

MACARTHUR BOULEVARD, 4925
Outdoor HVAC Equipment
Noise Level Measurements

Dear Mr. Lutsky:

Per your request, Polysonics has measured the noise levels form the outdoor HVAC equipment at your [4925] MACARTHUR BOULEVARD facility. Results of this survey are presented herein.

NOISE CODE According to Title 20, Section 2701 of the District of Columbia Municipal Regulations, maximum permissible noise levels at the property line are:

ZONE	MAXIMUM NOISE LEVEL	
	Daytime	Nighttime
Residential,...	60 dB(A)	55 dB(A)

NOISE LEVEL MEASUREMENTS

Noise levels were measured with a Bruel & Kjaer Type 1 Precision Sound Level Meter, with calibration traceable to National Institute of Standards and Technology. Measurements were made on 11 May 2004, between 11: am and 12: pm. Measurements were made in three locations on the Ashby Street side of the school. Three (of five) units on the Ashby Street side of the building and one (of two) units to the rear of the building were operating during the measurements. According to a school representative, all thermostats were set to a low temperature and it was cold inside the building.

Consistent with Polysonics' previous experience, there are considerable sources of noise at this location. Commercial aircraft approach Reagan National Airport almost directly overhead, resulting in noise levels above 70 dBA. Automobile traffic on MacArthur Boulevard includes trucks and busses. This is mentioned not to say that there are already elevated noise levels in the neighborhood, but to indicate the difficulty of measuring the HVAC equipment

noise in this environment. At the measurement location furthest from the HVAC equipment, noise measurements were repeated compromised by songbirds.

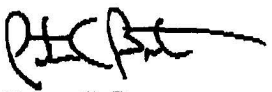
The noise levels from the HVAC equipment was determined by watching the meter over a period of 5 to 10 minutes, waiting for other noises to subside, and noting the lowest level indicated. Since the HVAC equipment was running continuously, the noise level is not going to go below that of the HVAC equipment. The measured levels and locations are as follows:

Noise Level, dBA	Location
54-55	School property line, Ashby Street, ~30 feet from HVAC units
<45	4915 Ashby Street, front porch
<50	4922 Ashby Street, end of driveway

For the two off-site measurements, the levels presented are the lowest level observed. Polysonics' opinion is that the noise level from the HVAC equipment is less, and could not be properly measured due to the other sources. Nonetheless, the measured level at the school property line is acceptable by code, and will only be less further away.

Please call if you have any questions or need additional information.

Sincerely,



Peter C. Brenton
Senior Acoustical Consultant