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JAN 08 2010
STATE OF ILLINOIS
Pollution Control Board

**BEFORE THE ILLINOIS
POLLUTION CONTROL BOARD**

IN THE MATTER OF)
)
JOSEPH & VICTORIA MORRISSEY,)
)
Complainants,)
)
v.)
)
GEOFF PAHIOS and ALPINE)
AUTOMOTIVE,)
)
Respondents.)

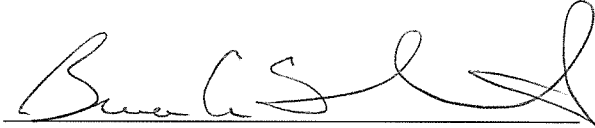
PCB 09-10

ORIGINAL

NOTICE OF FILING

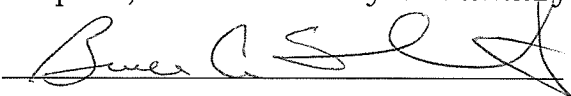
TO: Joseph & Victoria Morrissey
32 South Chestnut Court
Hawthorn Woods, IL 60047

Please take notice that on January 8, 2010 we caused to be filed with the Illinois Pollution Control Board the Respondents List of Witnesses and Exhibits, a copy of which is herein attached and served upon you.



CERTIFICATE OF SERVICE

I, Bruce A. Slivnick, state that I have served a true copy of this Notice of Filing and Respondents List of Witnesses and Exhibits upon the party to whom it is directed above by mailing the same at the U.S. Post Office in Deerfield, Illinois, before 5:00 p.m., on this 8th day of January, 2010.



Bruce A. Slivnick
707 Lake Cook Road, #316
Deerfield, IL 60015
(847) 714-0503

Paul J. Oleksak
100N. Atkinson Road, #110F
Grayslake, IL 60030
(847) 543-9000

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PCB 09-10

Witness and Exhibit List

Now come the Respondents, Geoff Pahios and Alpine Automotive, and disclose their list of witnesses and exhibits for the hearing on this matter currently set for February 23, 24 and 25, 2010:

Witnesses

Geoff and Gail Pahios
24675 W. August Lane
Lake Zurich, IL 60047
(847) 526-0474

Phil Mack
Jeff Struve
1320 Ensell Road
Lake Zurich, IL 60047
(847) 438-7770

Bob Kruse
1322 Ensell Road
Lake Zurich, IL 60047
(847) 307-8700

Vince Teronde
4421 W. Prairie
McHenry, IL 60050
(847) 409-8635

Tom Thunder
Roger Harmon
1278 W. Northwest Highway
Palatine, IL 60067
(847) 359-1068

Kelly Sheahan
Bob Wardainian
244 Telser Road
Lake Zurich, IL 60047
(847) 540-0200

Dan Peterson
Vijay Gadde
70 East Main
Lake Zurich, IL 60047
(847) 540-1698

Ed Lebos
Address unknown
(847) 815-6320

Jennifer Paulus
2 Lagoon Drive
Hawthorn Woods, IL 60047
(847) 438-9050

K. Humiston
Address unknown
(847) 438-2349

Alden Stiefel
1290 Ensell Road
Lake Zurich, IL 60047
(847) 578-0117

Julie Carver
166 Savoy Lane
Cary, IL 60013
(847) 727-1293

John Dixon
Address and phone number unknown

Joseph and Victoria Morrissey
32 S. Chestnut Court
Hawthorn Woods, IL 60047

Carrie Ryan
38463 N. 3rd Avenue
Spring Grove, IL 60081

Jim Cassara
1111 Geneva
Lake Zurich, IL 60047

Exhibits

29 photos of Alpine Automotive (attached)
report from Acoustic Associates (attached)

By:

A handwritten signature in black ink, appearing to read "Bruce A. Slivnick", written over a horizontal line.

Bruce A. Slivnick

Bruce A. Slivnick
707 Lake Cook Road
Suite 316
Deerfield, IL 60015
(847) 714-0503

Paul J. Oleksak
100 N. Atkinson Road
Suite 110F
Grayslake, IL 60030
(847-543-9000)

Acoustic Associates, Ltd.



Specialists in Hearing and Acoustics

1278 W. Northwest Hwy - Suite 904, Palatine, Illinois 60067
Office: 847-359-1068 • Fax: 847-359-1207
Website: www.AcousticAssociates.com
E-mail: info@AcousticAssociates.com

Tom Thunder, AuD, FAAA, INCE - Principal
Roger Harmon, BSEE, PE - Acoustical Engineer
Steve Hallenbeck, AuD, FAAA - Audiologist
Steve Thunder, BS Cand. - Engineering Intern

May 23, 2008

Geoff Pahios
Alpine Automotive
1320 Ensell Rd
Lake Zurich, IL 60047

Re: Environmental Noise Assessment

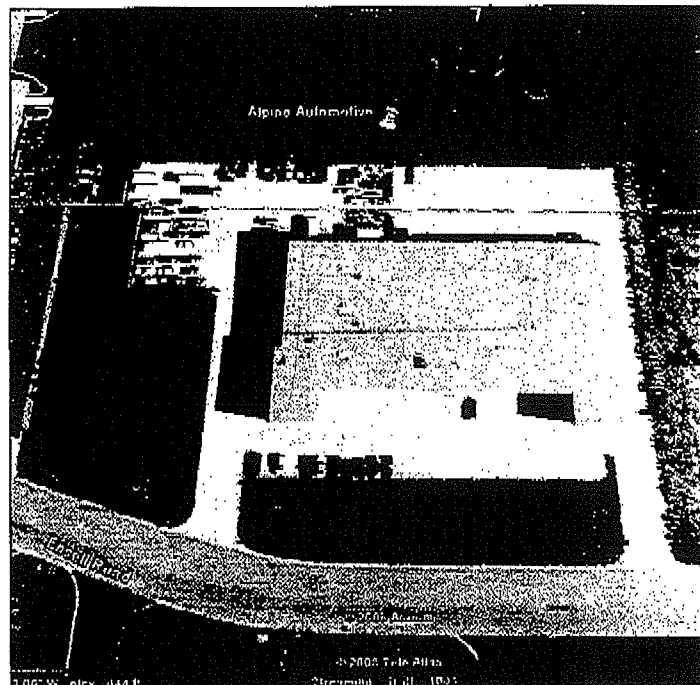
Dear Geoff:

We visited your shop on Tuesday, 5/6/08, to observe operations and to conduct sound testing. This testing was performed to assess noise emissions from your facility. Noise sampling was obtained using a precision sound level meter connected to a digital recorder. This equipment was set up at the location seen in aerial photo below. This location is in a buffer area between the shop and the residential homes to the north. In addition, we made a continuous video recording of the shop activities and the surrounding area. Audio and video recordings were performed to ensure a comprehensive noise analysis could be made with positive source identification.

Sound Level Time History

We began our recording at 2:13 PM and continued it for over one hour. A calibration tone was placed on the recording so that we could analyze the spectrum and levels with our sound analysis software. A trace of the overall sound level as a function of time is shown in Fig 1. The blue dotted line shows the sound level recorded second-by-second. The solid red line is the 1-minute moving average called the equivalent level (Leq).

Significant sources include air grinders, chisels, impact wrenches, high pressure blowers, tire pressure hoses, and impacts. I listened to the audio recording and viewed the video to identify the peaks in the trace plotted in Fig 1. Events that were shop-related are shown in the upper part of the



Alpine Automotive

May 23, 2008

chart. Those associated with normal ambient noise or the neighboring bays are labeled in the lower half of the chart. From time to time, there were impacts and loud talking from the shop. However, the most significant source was from the air impact wrenches.

The greatest noise, however, came from the jets that passed overhead. As you can see in the Fig. 1, these events came at regular intervals. The next greatest noise was actually from the neighboring bay where impacts and loud talking occurred outdoors during the loading and unloading of trucks.

State of Illinois Noise Limits

The State of Illinois has limits that apply to the noise radiated from an auto service facility to residential property. Its limits pertain to the 1-hour average level - not the 1-second sound level or the 1-minute Leq. Its limits are also expressed for each of nine different frequency bands from 32-8000 Hz. For simplicity, the State's limit 9-frequency limits could be weighted according to the way humans perceive sound and then totaled to be able to use a single number value. For daytime operations, that single number limit would be 55 dB and is often referred to the "monitoring" limit. This level is marked in Fig. 1 for reference.

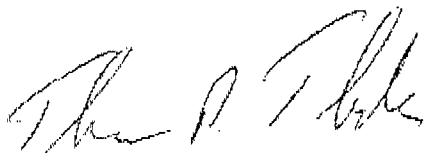
As you can see, the 1-minute averages (Leq) from the shop do not exceed 55 dBA. Accordingly, the noise from your shop could not possibly exceed a 1-hour average of 55 dB. In fact, the 1-hour Leq for all the noise observed at that location (shop and extraneous noise combined) was 51 dB.

Conclusion

Based on our data and observations, the noise from your shop does not appear to exceed the State noise limits. However, the impact wrench is clearly the most significant source because of its high audibility and its abrupt and distinct character. This noise could be reduced if you hang clear vinyl strips over the overhead doors. If need be, a small cutout could be made for easier employee access. Also, the strips could be hung from an arm that swings open automatically to allow a car or truck to pass. Such doors are often seen in car washes.

I hope this report gives you the information you need to know. Be sure to let me know if you have any questions.

Sincerely,



Thomas D. Thunder, AuD, FAAA, INCE
Audiologist and Acoustical Engineer

Alpine Automotive

May 23, 2008

