



Astex Environmental Services, Inc.
123 Catalpa · San Antonio, TX 78209
Phone: (210) 828-9800 · Fax: (210) 829-4927

April 25, 2008

Mr. Lucas Oliva
Design Manager Real Estate Services
San Antonio Housing Authority
818 S. Flores
San Antonio, Texas 78204
Phone: (210) 477-6004
Email: lucas_oliva@saha.org

RE: Limited Mold Inspection, 1515 Villa Flores, San Antonio, Texas
Astex Project #AES-08-J-4836

Dear Mr. Oliva,

Pursuant to your request, on April 22, 2008, Mr. Ron Greenberg of Astex Environmental Services, Inc. (AES), Texas Department of State Health Services (TDSHS) Mold Assessment Consultant MAC 0509 conducted a Limited Mold Inspection within the unoccupied home at 1515 Villa Flores, San Antonio, Texas to investigate the general microbial conditions in the home prior to sale.

Scope of Work

The scope of work for this limited inspection included the collection of the following samples:

- Air samples (Allergenco brand cassettes) were collected in the following locations for the analysis of Total Bioaerosols:
 1. inside – living room by front door - 1 sample
 2. inside – 2nd floor at HVAC return air intake - 1 sample
 3. inside – 2nd floor front left bedroom – 1 sample
 4. inside – garage to kitchen – 1 sample

5. outside comparison/control samples - 2 samples

Note: These samples were delivered to the contract lab, Crisp Analytical Laboratories, LLC, 2081 Hutton Dr., Carrollton, Texas 75006, for analyses in accordance with the American Industrial Hygiene Association (AIHA) Environmental Microbiology Laboratory Accreditation Program (EMLAP) as well as following the Food and Drug Administration (FDA) Good Laboratory Practice Guidelines.

Visual and Moisture Inspection Results

No visible mold and/or evidence of water intrusion were observed within the house or garage and no indications of moisture within the wall materials was noted.

Temperature and Humidity Levels

Temperature readings within the house were from 80.6 to 84.9 degrees Fahrenheit and humidity was noted to be between 44.2 to 46.5 percent

Analytical Results

The Allergenco Air Samples were collected by Astex personnel on the morning of April 22, 2008 and were delivered to the contract lab for analysis of total bioaerosols with the results being made a part of this report. The data generated in this report is based on the samples and accompanying information provided and represents concentrations at a point in time under the conditions sampled. Keep in mind, sample values fluctuate widely and single point-in-time samples can be highly variable.

Currently, there are no regulations, federal or state, establishing action limits for mold spores and mold particulates in indoor air. Also, there are no species of molds identified to be hazards to public health. Current practice is to compare interior to exterior samples, noting the species present and the contrasting levels of spores and particle.

During this limited investigation, the following observations were noted:

Fungal Spores (Allergenco):

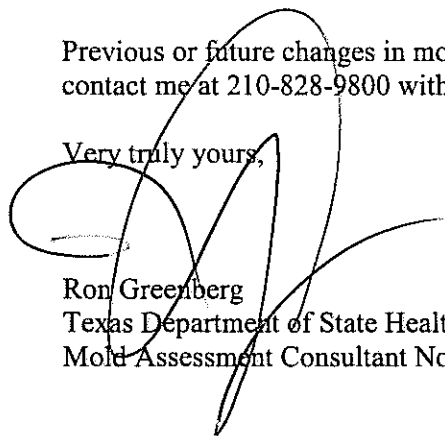
- The indoor air had elevated levels of total fungal spores (6,624 to 11,376 count/M³) compared to outdoor air (4,272 to 9,792 count/M³) and the distribution of spores was not typical of the outdoor air although *Cladosporium* was the dominant type both indoors and outdoors. Elevated levels, significantly higher than those outdoors, of *Alternaria*; *Curvularia*; *Dreschlera/Bipolaris*; *Epicoccum*; *Periconia/Myx* and *Pseudo/Cercospora* were reported.

Conclusions/Recommendations

- The fact that there were elevated levels of species not represented in the outdoor samples on the day of the investigation indicates that at least select areas of the residence should be scheduled for cleaning by a mold abatement company. Air scrubbers should be placed in the living room/kitchen (1st floor) and in close proximity of the 2nd floor HVAC return and hallway between the bedrooms. All areas of the residence, including the garage, should HEPA vacuumed and sanitized.

Previous or future changes in mold concentrations cannot be inferred from these sample results. Please contact me at 210-828-9800 with any questions.

Very truly yours,

A large, stylized handwritten signature in black ink, appearing to read 'Ron Greenberg', is written over the text 'Very truly yours,' and partially over the typed name.

Ron Greenberg
Texas Department of State Health Services (TDSHS)
Mold Assessment Consultant No. MAC 0509

Attachments: Chain of Custody
 Laboratory Results

Crisp Analytical Labs, L.L.C. / C.A. Labs, L.L.C. / Crisp Analytical Labs at Houston, L.L.C.

Client: Astex Inc. Allergenic Particle Report CA Lab Project #: CAL08042831 Date:04/23/08
 Address: 123 Catalpa San Antonio, TX 7820 Analysis: Light Microscopy identification of pollen/fungal spore per CA Labs Air-o-cell method page #1
 Attn: Ron Greenberg Sample media : Air-o-cell / Cyclex D (airborne) Project name: 1515 Villa Flores AES-08-J-4836

Sample # Location Volume	4836-O1 Outside Front		4836-O2 Outside Rear		4836-I1 Inside Living Room by Door		4836-I2 Inside 2nd Fl. HVAC Return		4836-I3 Inside 2nd Fl. Front Bedroom		4836-I4 Inside Garage/Kitchen	
	Cnts./ m3	Per- cent	Cnts./ m3	Per- cent	Cnts./ m3	Per- cent	Cnts./ m3	Per- cent	Cnts./ m3	Per- cent	Cnts./ m3	Per- cent
Alternaria			18	2.5	40	5.5	18	2.4	22	2.8	11	1.4
Ascomycetes	43	576	32	4.4	18	2.4	14	1.9	18	2.4	14	1.7
Basidiomycetes	11	144	22	2.9	11	1.4	7	0.9	11	1.4	7	0.9
Botrytis												
Chaetomium												
Cladosporium	227	3,024	572	7.5	274	3.6	281	3.7	234	3.1	202	2.6
Curvularia			4	0.5	22	2.9	18	2.4	11	1.4	11	1.4
Dreschslera/Bipolaris	7	96	4	0.5	14	1.8	14	1.8	4	0.5	7	0.9
Epicoccum			4	0.5	18	2.4	14	1.8	7	0.9	7	0.9
Oidium/Pero												
Nigrospora	7	96	7	0.9			7	0.9	11	1.4	7	0.9
Penicillium/Asp	11	144	54	7.2	25	3.3	40	5.2	14	1.8		
Periconia/Myx	14	192	11	1.4	277	3.6	324	4.2	511	6.7	230	2.9
Pithomyces			7	0.9			18	2.4	11	1.4		
Pseudo/Cercospora					11	1.4						
Rust												
Smut												
Stachybotrys												
Pollen	4	48	11	1.4			4	0.5	4	0.5		
Hyphae	7	96	7	0.9	11	1.4	14	1.8	11	1.4	7	0.9
Particulate	4	48	4	0.5	4	0.5	4	0.5	4	0.5	4	0.5
	320	4,272	734	9.7	709	9.4	756	10.0	853	11.3	497	6.6
Total	Cnts./	Per-	Total	Per-	Total	Per-	Total	Per-	Total	Per-	Total	Per-
	m3	cent	m3	cent	m3	cent	m3	cent	m3	cent	m3	cent

Crisp Analytical Labs, L.L.C. 2081 Hutton, Suite 301 Carrollton, TX 75006
 Dallas Baton Rouge Houston
 Analyst - Chad Lytle General Manager - Leslie Crisp

**INDOOR AIR QUALITY
ALLERGENIC PARTICLE
LABORATORY ANALYSIS REPORT**

Astex Inc.
123 Catalpa
San Antonio, TX 78209
phone: 210-828-9800
fax: 210-829-4927
reference number: CAL08042831

PO #:
Turnaround Time: 24 Hours
Received: 04/23/08 9:00 am

LABORATORY ANALYSIS METHOD:

Summary of light microscopy analysis of allergenic particles in tape or air cassettes. Tape lift samples indicate presence or absence and identification of known allergenic particles. Air cassettes can be quantified in airborne concentrations (total counts/m3). Pollen and fungus type qualifications are based on keys and reference standards for known allergenic types. Sample analysis is performed by professionally trained individuals. This test report relates only to items tested. This report does not imply endorsement by any US Government agency. This report may not be reproduced except in full, without written permission from CA Labs. CA Labs - Dallas is accredited by AIHA for viable fungi analysis.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. If there are concerns about health aspects of known allergens, consult a physician. Pollen and spore types identified are all naturally occurring and may grow anywhere in a natural environment where water is present. While it is normal for fungi to be present inside buildings from outside sources, growth occurs in humid conditions. Fungi cannot spread from building to building, as it is always present, but may not be growing. To control allergens in an area, drying and use of HEPA filters are recommended. Bias is present in all types of spore trap cassettes by particle size, capture, spread and counting procedure used. Quantification is susceptible to variance of 100% and standard deviation to 200%. Unless notified in writing to return samples covered by this report, CA Labs will store the samples for thirty (30) days before discarding. A shipping and handling fee may be assessed for the return of any samples. This method is not covered by the scope of NVLAP or AIHA accreditation.

This report is intended for the recipient, only. Please notify us if you have received this document in error
(we will advise you to destroy or return this document.)

Analysis performed at Crisp Analytical Labs, L.L.C. 2081 Hutton Dr. Suite 301
Carrollton, TX 75006; phone (972)488-1414, fax (972)488-8006, after-hours
mobile (214)564-8366.

