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Analytical/Consulting
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Dear LaDean Personal Matters / Ex. 6 9 Apr 2015

Below are the levels of toxic/carcinogenic compounds measured in the air sample(s) provided.

	SampleG	SampleH
Heptachlor	**11.0**	**12.0**
Aldrin	**BDL**	**BDL**
Trans-chlordane	**BDL**	**BDL**
Cis-chlordane	**BDL**	**BDL**
Total	**11.0**	**12.0**

The concentrations of the 3 main components of technical chlordane (i.e., trans-chlordane, cis-chlordane, and heptachlor), and aldrin (used in 5-10 % of treated homes) were determined by gas chromatography. The results of your air sample(s) were compared to the results of known concentrations of certified standards (see calculation sheet).

The unit used to express chlordane in the air of your current or prospective home is weight of chlordane per volume of air. The unit for weight is usually nanograms (ng) (one billionth of a gram) and the unit for volume of air is cubic meter (M^3) which equates to 1000 liters. The detection limit for each of these insecticides is 25 picograms or 0.025 ng in the 5 liter air sample or 5 ng / M^3. If the levels of these insecticides are below the analytical detection limits, then they are defined as Below Detection Limits (**BDL**)

Two excellent web sites for the health effects (cancer, neurological, immunological, and reproductive) of chlordane, maintained by United States Environmental Protection Agency (USEPA) and by CDC's Agency for Toxic Substances and Disease Registry (ATSDR), are **www.epa.gov/iris/subst/0142.htm.** & **www.atsdr.cdc.gov/toxprofiles/tp31-c2.pdf**

The risk assessments are based on the combined weight of the all the compounds in technical chlordane. Heptachlor, trans-chlordane, and cis-chlordane compose approximately 50% of the total weight of technical chlordane. For example, to