Indoor Air Quality Screen Testing

This package is one of our most popular tests and includes the most common parameters of a baseline air quality, including:

Carbon Dioxide

Ventilation is used to purge and dilute the various chemicals given off by building occupants, furnishings, office equipment, etc. Carbon dioxide is used as an index of the ventilation provided relative to the occupancy of the area.

Carbon Monoxide

Carbon monoxide is a colourless, odourless, toxic gas that is a product of incomplete combustion. Carbon monoxide pollution occurs where combustion gases are not properly exhausted or are being re-entrained into the building.

Dust Levels

A good general evaluation of indoor air quality is the dust levels; specifically, fine dust like $PM_{2.5}$ and PM_{10} which are strongly associated with health effects. There are guideline values to help interpret the dust levels found.

Airborne Particle ID

Of equal importance is the composition of the dust. The chart on the right shows the airborne particle composition of samples from a house. The test identified fiberglass fibres in both areas, ash-like soot in the kitchen (from cooking) and feather strands in the bedroom (from pillows and comforters). The test is particularly useful in that it shows what is present and what is not, and measures the amount of each type of particle.

Location	Kitchen	Bedroom
Volume (L)	75	75
Debris Rating (0 to 5)	1	1
Pollen Count	0	0
Particle	**Result**	**Result**
Skin Cells / Human	normal	normal
Skin Cells / Animal	trace	trace
Silicates	none	none
Fibres - large	high	high
Fibres - small	normal	normal
Fiberglass	none	none
Animal Hair	trace	trace
Plant Hair	none	none
Human Hair	low	low
Inspect parts	none	none
Feather fragments	none	high
HVAC Clusters	low	low
Combution Particles	none	none
Insect Frass	none	none
Ash-Like Soot	high	none
Char	none	none
Mould	none	none

Mould

Mould is included in the Particle ID analysis. If significant mould levels are found, a full mould breakdown that identifies the types of mould and the amounts, will be performed at no additional cost.