

Trusted Technical Expertise.



Our air quality laboratory provides analytical services to support the Leadership in Energy and Environmental Design (LEED) Green Building Rating System® for New Construction (LEED-NC) EQ Credit 3.2, Construction IAQ Management Plan Before Occupancy.

Credit may be earned by either flushing out the building prior to occupancy, or by conducting indoor air testing to show contaminant levels do not exceed the levels noted in the following table. In cases where time is limited before building occupancy, or when it may not be desirable to flush with outdoor air (i.e. high humidity or elevated outdoor VOC levels), indoor air testing may be appropriate. Samples should be collected in the breathing zone in each ventilation area throughout the building.

Contaminant	Maximum Allowed Concentration	Sampling / Analytical Method	Media	Flow Rate (Over 4 Hours)	Total Volume	Lab MRL	Preserve / Hold Time
Formaldehyde	50 ppbV (Version 2.2) 27 ppbV (Version 3.0- 2009)	EPA TO-11A	DNPH Silica Gel tube	200 mL/min	48L	1.7 ppbV	Keep tubes cold (freezer) before use. Ship samples cold (4°C) overnight to lab / 14 days until extraction
Particulates (PM10)	50 µg/m3	handheld meter	NA	NA	NA	NA	NA
Total Volatile Organic Compounds (TVOC)*	500 µg/m3	EPA TO-17	Thermal Desorption tube	50 mL/min	12L	50-100 µg/m3	Tubes may be stored at room temperature before use. Ship samples cold (4°C) overnight to lab / 28 days until analysis
4-Phenylcyclohexene (4-PCH) **	6.5 µg/m3	EPA TO-17	Thermal Desorption tube	50 mL/min	12L	0.83 µg/m3	Tubes may be stored at room temperature before use. Ship samples cold (4°C) overnight to lab / 28 days until analysis
Carbon Monoxide (CO)	9 ppmV and no greater than 2 ppmV above outdoor levels	handheld meter	NA	NA	NA	NA	NA

* Other sampling/analytical methods are available for TVOC. Please call the laboratory to discuss benefits and drawbacks of the various available methods.

** This test is only required if carpets and fabrics with styrene butadiene rubber (SBR) latex backing material are installed as part of the building systems.