



Air Toxics Testing Overview

Volatile organic compounds (VOCs) encompass a wide range of chemicals used in many products and materials. These VOCs can be emitted into the air from certain solids or liquids, and many have the potential to cause adverse health effects, either from long-term exposure or from elevated levels over a shorter period of time.

Concentrations of many VOCs are consistently higher indoors than outdoors since they are emitted from so many products found in modern homes and buildings. Examples of common sources include: paints, paint strippers, and other solvents; wood preservatives; aerosol sprays; cleaning supplies, disinfectants and pesticides; air fresheners; stored fuels and automotive products; hobby supplies; dry-cleaned clothing; building materials and furnishings; glues and adhesives.

EMSL Analytical, Inc.'s network of laboratories provides testing services for VOCs in air, water and soil. In addition, we provide chamber studies for consumer product off-gassing analyses so that retailers and manufacturers understand what their products are emitting and can comply with regulations. These same services are available to the public so that they know what they are being exposed to in their homes.

Key tests include* (but are not limited to) the following:

VOLATILE ORGANIC COMPOUNDS (VOCs) VIA EPA TO-15

- VOC Organic Scan 74 Compounds
 - w/ Library Search
 - w/ Full Deliverable Package
 - w/ Library Search & Full Deliverable Package

VOLATILE ORGANIC COMPOUNDS (VOCs) VIA NJDEP

- VOC Organic Scan Low Level NJDEP Scan
 - w/ Library Search
 - w/ Full Deliverable Package
 - w/ Library Search & Full Deliverable Package

TO-15 REPORTING OPTIONS:

- ACGIH = American Conference of Governmental Industrial Hygienists • AURA Personal Sampler
- CA HHSL = California Human Health Screening Levels (CHHSLs) for Indoor Air
- CA HHSL = California Human Health Screening Levels (CHHSLs) for Shallow Soil Gas (<5')
- CA Office of Environmental Health Hazard Assessment
- USEPA Vapor Intrusion Screening Levels (VISL)
- USEPA Industrial Regional Screening Levels (RSL) at THQ 0.1
- USEPA Industrial Regional Screening Levels (RSL) at THQ 1.0
- USEPA Residential Regional Screening Levels (RSL) at THQ 0.1
- USEPA Residential Regional Screening Levels (RSL) at THQ 1.0
- Indiana Department of Environmental Management- Screening Levels
- NC DENR DWM – Non-Residential Vapor Intrusion Screening Concentrations



- NC DENR DWM – Residential Vapor Intrusion Screening Concentrations
- NH DES – Waste Management Division- Indoor Air
- NH DES – Waste Management Division- Soil Gas
- NIOSH and OSHA Exposure Limit Comparisons
- NJ DEP Vapor Intrusion Indoor Air Screening Levels
- NJ DEP Vapor Intrusion Soil Gas Screening Levels
- OH EPA Indoor Air Standards due to Vapor Intrusion (Commercial Land Use Category)
- OH EPA Indoor Air Standards due to Vapor Intrusion (Residential Land Use Category)
- PA DEP – Table 5. Indoor Air Statewide Health Standard Vapor Intrusion Screening Values (SVIA)
- PA DEP – Table 4. Sub-Slab Soil Gas Statewide Health Standard Vapor Intrusion Screening Values (SVSS)
- PA DEP – Table 3. Near-Source Soil Gas Statewide Health Standard Vapor Intrusion Screening Values (SVNS)
- Possible Background Sources of Contaminants
- Target Compound Results Summary
- Target Compound Results PPMV Summary
- Tentatively Identified Compound Results Summary
- Tentatively Identified Compound PPMV Results Summary
- Total Volatile Organic Compounds (TVOC) Results Summary
- Total Volatile Organic Compounds (TVOC) Results Summary
- Vermont DEC – Waste Management and Prevention Division, IROCP Air Screening Levels at THQ 1.0
- Vermont DEC – Waste Management and Prevention Division, IROCP

FIXED GASES

- Methane
- Sulfur Gas Profile
- Ammonia
- Carbon Dioxide
- Carbon Monoxide
- Hydrogen Sulfide
- Oxygen
- Water Vapor
- C1-C6 Hydrocarbons

