



Trusted Technical Expertise.



Columbia Analytical Services, Inc. delivers nationwide comprehensive air quality analytical services. Combining the experience and skills of the dedicated Air Quality Laboratory in Southern California with the additional services provided by the Rochester, NY; Houston, TX; and Kelso, WA facilities, Columbia Analytical is capable of meeting a wide range of air testing needs.

The air quality laboratory has more than 20 years experience in providing high quality chemical analyses of air samples, as well as novel applications and method development. The laboratory is NELAP certified for EPA TO-15 and is accredited by the following organizations: the American Industrial Hygiene Association (AIHA), the Arizona Department of Health Services, and the New York State Department of Health for Air and Emissions.

The full service environmental laboratories in Kelso and Rochester have been providing analytical services to the environmental community for more than 40 combined years, and they specialize in metals, inorganics, and particulate determinations for airborne contaminants. The Houston laboratory specializes in dioxin analysis by high and low-resolution GC/MS methods on a variety of sample matrices, such as XAD resins/filters, sediments, tissues, paper, ash, soil, water and waste.

Air Testing Capabilities & Experience

- Ambient Air Analysis
- Indoor Air Quality (IAQ)
- Landfill Gas Emissions
- Soil Vapor Gas and Extraction Systems
- Process Gas Evaluation
- Liquid Sample Analysis
- Stationary Source Testing
- Microbial Volatile Organic Compounds (MVOCs)
- Industrial Hygiene Methods
- Multi-Metals in Air
- Product Off-Gassing and Emissions Studies
- Interpretive GC/Mass Spectrometry
- Custom Method Development and Validation
- Summa Canister Cleaning and Certification

Sampling Media & Containers

- Summa Canisters
- Silco Canisters
- MiniCans for Personal Monitoring
- Flow Controllers
- Vacuum Gauges
- Tedlar Bags
- NIOSH/OSHA Method Sampling Tubes
- Thermal Desorption Tubes
- Passive Dosimeters
- DNPH-coated Silica Gel Tubes
- Impinger Solutions
- PUF and PUF/XAD Cartridges
- Filters

Contact Information

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Parameter / Analysis	Method
Benzene, Toluene, Xylenes, Ethylbenzene (BTEX) by GC/PID	CARB 410 Mod.
BTEX and MTBE by GC/MS	EPA TO-14A/ TO15
BTU Heat Content / CHONS by GC/TCD	ASTM D3588
Carbonyl Scan (Speciated aldehydes) by HPLC	EPA TO-5A/TO-11A
Dissolved Gases in water (MEEPP, CO ₂ , H ₂) by GC/FID/TCD	RSK 175
Fixed Gases (H ₂ , O ₂ , N ₂ , CH ₄ , CO, CO ₂) by GC/TCD	EPA 3C Mod.
Formaldehyde and other carbonyls by HPLC	EPA TO-5A/TO-11A
Hydrocarbon Speciation (C ₁ -C ₆ & C ₇ +) by GC/FID	EPA TO-3 Mod.
Hydrogen Sulfide by GC/SCD	ASTM D5504-01, SCAQMD 307.91 Mod.
Microbial Volatile Organic Compounds	NIOSH 2549
Naphthas by GC/FID	NIOSH 1550
Organophosphate Pesticides by GC/FPD or GC/NPD	OSHA 62
Pesticides and PCBs by GC/ECD	EPA TO-4A/EPA TO-10A
Phenols and Cresols by HPLC	EPA TO-8A
Polynuclear Aromatic Hydrocarbons (PAHs) by GC/MS (SIM)	EPA TO-13A Mod.
Reduced sulfur compounds by GC/SCD	ASTM D5504-01, SCAQMD 307.91 Mod.
Sulfur Hexafluoride (SF ₆)	NIOSH 6602
Total Gaseous Non-methane Organics (TGNMO)	EPA 25C
Total Petroleum Hydrocarbons (TPH) as Gasoline by GC/FID	EPA TO-3 Mod.
TPH as Gasoline, plus BTEX and MTBE by GC/FID/PID	EPA TO-3 Mod, CARB 410 Mod.
TPH as Diesel by GC/FID	NIOSH 1550 Mod.
Volatile Organic Compounds (VOCs) by GC/MS (Summa)	EPA TO-14A/ TO-15
Volatile Organic Compounds (VOCs) by GC/MS (Tedlar Bag)	EPA TO-14A/ TO-15 Mod.
Volatile Organic Compounds (VOCs) by GC/MS (Thermal Desorption)	EPA TO-17

Additional Air Methods & Services Offered by our Rochester, Kelso & Houston Laboratories:

Parameter / Analysis	Method	Rochester	Kelso	Houston
Acids by Ion Chromatography: HCl, HF, HNO ₃ , H ₂ SO ₄ , H ₃ PO ₄	NIOSH 7903	X		
Ammonia	EPA Method 206		X	
BTU Heat Content / CHONS by GC/TCD	ASTM D3588 Mod.	X		
Chromium Emissions	EPA Methods 29, 108, and 306		X	
Dioxin/Furans by HR/GC HR/MS in Ambient Air	EPA TO-9			X
Dioxin/Furans by HR/GC HR/MS in Source Emissions	EPA 23			X
Dissolved Gases by GC/FID	RSK175 Mod.	X		
Formaldehyde, Methanol and Phenol	NCASI CI/WP-98.01		X	
Hazardous Air Pollutants (HAPS)	NCASI IM/CAN/WP-99.01		X	
Hydrogen Chloride Emissions from Stationary Sources	EPA 26, 26A	X	X	
Hydrocarbon Speciation (C ₁ -C ₆ & C ₇ +) by GC/FID	EPA TO-3 Mod.	X		
Hydrogen Halides Emissions from Stationary Sources	EPA Method 26		X	
Inorganic Lead Emissions from Stationary Sources	EPA Method 12		X	
Ketones, Aldehydes and Methanol	NCASI CI/SG/PULP-94.02		X	
Mercury Emissions from Chlor-Alkali Plant Air Streams	EPA Method 101		X	
Methanol Emission	EPA Method 308		X	
Multiple Metals in Ambient Air	NIOSH 7300	X		
Multiple Metals in Source Emissions	EPA 29		X	
Particulates by gravimetry	NIOSH 0500, NIOSH 0600	X		
Sulfuric Acid Mist and Sulfur Dioxide Emissions-Stationary Sources	EPA Method 8		X	
Total Fluoride Emissions	EPA Method 13A and 13B		X	
TPH GAS/BTEX by GC FID/PID	Modified TO-3/8015	X		

