

Laboratory Division Professional Air Analysis

GOLDEN specializes in air testing, analysis, and instrumentation rentals and service. The company was founded in 1997 to provide accurate, defensible air testing services, and reliable, timely reporting. We know that when you hire GOLDEN, you trust us with your valuable reputation. We take that responsibility seriously.

GOLDEN's laboratory division supports air quality professionals with accurate, timely, and cost-effective analytical services. We provide a wide range of accredited analyses for third-party testers, industry, and government.

Analysis for air testing methods is very different from other environmental methods - and can tax the typical environmental lab with unusual target compounds or matrices. GOLDEN's laboratory division was founded in 2003 by air testing professionals who believed Gulf Coast air testers deserved a better air lab. Since then we've built a national presence by focusing on our mission: delivering the industry's best package for air quality sample analysis.

From PM2.5 and GC/MS to onsite or in-lab FTIR, our experienced scientists and best technology can make your job easier. We have NELAP accreditations, top line instruments, and strong science. But we never forget that your priorities are our primary focus—timely, accurate results and efficient service.

QUALITY ASSURANCE AND ACCREDITATIONS

GOLDEN monitors and improves quality through our commitment to a documented quality assurance program. We observe TNI and ASTM quality processes, and administer an ongoing instrument and sample handling technology upgrade program.

TCEQ / NELAP

Louisiana / LELAP

Washington / TX NELAP

AIHA / May 2015

AIHA PAT Program

THE GOLDEN ADVANTAGE

NELAP ACCREDITED LAB

ACCLAIMED QA PROGRAM

10 B.D. TURNAROUND TIME

EPA, SW-846, NIOSH, & ASTM
METHODS

M18 & HRVOC SPECIALISTS

FTIR - M318, 320 & 321

GAS & LIQUID
CHROMATOGRAPHY

CANISTER RENTALS & ANALYSIS

EQUIPMENTS SALES & RENTALS

INDUSTRIAL HYGIENE
METALS ANALYSIS

BENZNE FENCELINE
MONITORING PROGRAM



The **GOLD STANDARD** for Air Analysis

(281)984-7021 Toll-Free (888)908-8235

www.goldenspecialty.com



EPA Methods

- EPA Method 3C:** Fixed gases (% level - CO, CO₂, CH₄, O₂, N₂)
- EPA Method 5:** Particulate matter
- EPA Method 8A:** H₂SO₄ and SO₂ - barium-thorin titration
- EPA Method 8A modified:** H₂SO₄ and SO₂ - by IC
- EPA Method 10:** Carbon monoxide (bags & canisters)
- EPA Method 11:** Hydrogen sulfide (in-lab titrations)
- EPA Method 18:** VOCs by GC (condensates & adsorbent tubes)
- EPA Method 18:** VOCs by GC (bags)
- EPA Method 18:** BTEX (benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene) (bags)
- EPA Method 18:** Total hydrocarbons (THC) (bags)
- EPA Method 18:** C1-C6 as n-alkanes (bags)
- EPA Method 18:** C1 - C6 & HRVOCs (bags) (Methane, Ethane, Ethylene, Propane, Propylene, i-Butane, n-Butane, t-2-Butene, Cis-2-Butene, i-Pentane, n-Pentane, 1,3-Butadiene and Hexane)
- EPA Method 18-type /ASTM D1946:** VOCs (C1-C6 & HRVOCs) (% levels and ppm levels) + BTU (flare bags)
- EPA Method 26A:** Hydrogen halides (HCl, HBr, HF)
- EPA Method 26A:** Halogens (Cl₂, Br₂)
- EPA Method 29:** Multiple Metals **NEW!!**
- EPA Method 30B:** Mercury Vapor, including onsite
- EPA Method 201A:** Particulate matter
- EPA Method 202:** Backhalf condensable particulate matter (CPM) includes DI, organic, & CPM filter
- EPA Method 202:** Sulfate analysis (IC)
- EPA Method 300:** Anions (F-, Cl-, Br-, SO₄²⁻, NO₃⁻, PO₄³⁻)
- EPA Method 308:** Methanol (3 fraction run - 2 sil gel & 1 di H₂O)
- EPA Method 315:** Particulate, MeCl₂ extractable matter (4 fractions)
- EPA Method 316:** Sample & Analysis for Formaldehyde Emissions in the Mineral Wool & Wool Fiberglass Industries
- EPA Method 320 modified:** In laboratory FTIR for VOCs & inorganics
- EPA Method 323:** Formaldehyde
- EPA Method 325B:** Benzene
- EPA Method 7199:** Hexavalent chromium (Cr+6)

Toxic Organics Methods

- TO-12:** Total non-methane organics
- TO-14A:** Light hydrocarbons (C1 - C6) + HRVOCs + BTEX (GC/MS/FID)
- TO-14A:** Light hydrocarbons (C1 - C6) + HRVOCs + BTEX + TICs (GC/MS/FID)
- TO-14A:** NMOCs C2-C6 & C6+ including HRVOCs (GC/FID w/cryogenic pre-concentrator) (ppb)
- TO-14A:** C1-C6 + HRVOCs (ppm) (GC/FID)
- TO-14A:** BTEX (benzene, toluene, ethylbenzene, m-xylene, p-xylene & o-xylene) (GC/FID) (ppm)
- TO-15:** VOCs (Call for list) (NOTE - ppb only)
- TO-15 + TICs:** VOCs (Call for list) + tentatively identified compounds (TICs)

Conditional Test Methods

- CTM-027:** Ammonia
- CTM-027(modified):** Cations (Na, K, Li, Mg, Ca, NH₄)
- ASTM Methods**
- ASTM D1945:** Natural gas - fixed gases, C1-C5 & BTU (GC/TCD) (canisters)
- ASTM D1946:** Fuel gas - fixed gases (% level - CO, CO₂, CH₄, O₂, N₂) & BTU (GC/TCD) (canisters)
- ASTM D1946 / Method 18:** Flare gases - fixed gases, C1-C5, & BTU (GC/TCD & /FID) (canisters)
- ASTM D5504:** Sulfur speciation and total reduced sulfur (GC/PFPD)
- ASTM D6228:** H₂S, COS, CS₂ (canisters or bags) (24hr. hold time for bags)
- ASTM D6348-03:** FTIR for VOCs & inorganics

NCASI Methods

- NCASI 98.01:** Chilled impinger method - methanol, acetone, acetaldehyde, methyl ethyl ketone, phenol
- NCASI 98.01:** Chilled impinger method - formaldehyde

SW 846 Methods

- SW-846 Method 0011:** Formaldehyde, acetaldehyde, acetophenone, isophorone, propionaldehyde (HPLC/UV)
- SW-846 Method 200.8:** Trace Elements in Water and Waste using ICP/MS **NEW!!**
- SW-846 Method 6020A:** ICP/MS **NEW!!**
- SW-846 Method 8260B:** VOCs in non-potable waters, purge & trap, GC/MS

Other Test Methods (OTM)

- OTM-027:** PM₁₀ & PM_{2.5}

Additional Methods

- EPA Compendium Method IO 3.5:** Metals in particulate matter using ICP/MS **NEW!!**
- NIOSH 1500:** VOCs & BTEX (tubes)
- NIOSH 1501:** Total petroleum hydrocarbons (TPH) & BTEX (tubes)
- NIOSH 2000:** Methanol (silica gel tubes)
- NIOSH 2011:** Formic acid (IC) (filter & s.g. tube)
- NIOSH 7903:** Inorganic acids (F-, Cl-, Br-, SO₄²⁻, NO₃⁻, PO₄³⁻)
- OSHA 42:** Isocyanates (TDI, MDI, HDI)
- PAMS:** C₂ - C₁₂ hydrocarbons (ozone precursor PAMS List) (GC/FID/MS)
- Part 50 Appendix L:** Particulate matter
- RSK 175:** Dissolved gases headspace analysis (CH₄, C₂H₄, C₂H₆ in H₂O)
- Scan:** Siloxanes
- Various methods:** Organic acids (i.e. formic, acetic, propionic, etc.) (IC or GC/FID)

