



ENTHALPY

ANALYTICAL



Statement of Qualifications



WWW.ENTHALPY.COM



Who We Are

Enthalpy Analytical (Enthalpy) is a national network of accredited environmental laboratories designed to provide our clients with responsive turnaround, best-in-class testing support, innovative science, regulatory expertise, and high-quality data. Through our collaborative process we seek to answer the right question and provide the best data in support of our client needs, whether they be meeting permit and compliance requirements or providing science-based solutions for sound decision-making.

We support projects ranging from simple site assessments to large multi-disciplinary programs for a diverse group of partners and clients including:

- Environmental Consulting and Engineering Firms
- Ports and Harbors
- Federal, Municipal, and Local Agencies
- Petrochemical Refining and Energy
- Waste to Energy
- Legal, Academic, and Research Groups

Enthalpy has ten laboratories, 400+ chemists, biologists, environmental scientists, technical specialists, and industry experts nationwide. Our accreditations include The NELAC Institute (TNI), numerous state programs, Department of Defense (DoD), and AIHA. We have a full suite of environmental lab services including advanced and specialized sciences.



Our Services



AIR TESTING

Enthalpy's experienced personnel with unparalleled knowledge of Environmental Protection Agency (EPA), NCASI and state air test methods allowing for the fast and accurate measurements of pollutants from stationary sources, ambient air, and soil-gas.

SOIL, WATER & SEDIMENT

Enthalpy offers a full range of analytical chemistry services directed toward the analysis of soil, sediment, water and tissue matrices.

ENVIRONMENTAL TOXICOLOGY

Enthalpy offers a comprehensive range of toxicity testing and related services including study design, planning, review, quality assurance, and regulatory support and the analysis, integration, interpretation, validation and application of toxicity data.

ULTRATRACE

Enthalpy is the premier laboratory network for analysis of Dioxin/Furans, PCB Congeners, and PAHs, providing legally defensible measurements and capable of analyzing low-trace samples with accurate and reproducible measurements.

PFAS

Enthalpy is at the forefront of method development to support parts per trillion measurement of Per- and Polyfluoroalkyl Substances (PFAS) from any sample matrix: water, air, soil, tissue and sediment.

Air Testing



Experience matters when dealing with the varied and challenging matrices of air analysis. Enthalpy has decades of specialized expertise in stationary source emissions, fugitive emissions, ambient air, vapor intrusion, and gas testing. Our use of mobile, onsite labs, advanced technology for low level detection, and a deep understanding of EPA, NCASI, AQMD, state, and ASTM methods, means we can provide high quality data solutions quickly for even the most challenging projects.

We pride ourselves on an exemplary team of scientists who actively engage with state and federal regulatory bodies and understand the industry demands and complex compliance landscape.

STATIONARY SOURCE EMISSIONS

NELAP and AQMD accredited for a full range of EPA and state air test methods with for in-lab and on-site analytical support services. Enthalpy provides analytical support for over 1,600 stack tests annually. We provide robust solutions for unique and challenging test programs by addressing laboratory, stack tester and source challenges.

FUGITIVE EMISSIONS

Trained staff with facility and process knowledge helps aid in the identification and quantification of fugitive emissions and leak detection and repair (LDAR). Fugitive emissions projects often require ongoing fence line monitoring to ensure the reduction of risk to the environment and facility.

AMBIENT AIR MONITORING

Leading the industry with residential, industrial and remediation air test programs with dedicated ambient monitoring equipment to ensure data quality, reproducibility and robustness.

VAPOR INTRUSION, SOIL-GAS, INDOOR AIR

Assisting with vapor intrusion (VI) pathway investigations and remediation efforts for over 20 years. We offer a wide range of analytical support including petroleum contaminants (BTEX, Naphthalene) and chlorinated solvents (dry cleaning solvents including perchloroethylene and daughter products) with superior throughput and critical on-time reporting.





Soil, Water & Sediment

WASTEWATER & STORMWATER

Fully accredited laboratory network supporting a wide range of organic, inorganic, and biological assays. Regulatory analytical support includes water quality guidance for such initiatives as NPDES discharge, county municipality requirements and stormwater management plans.

SOIL, WATER & HAZARDOUS WASTE

Our expert analytical scientists are well versed in project scopes for regulatory programs including RCRA/CERCLA (Superfund), TMDL, State Agency, EPA, Brownfields, and Department of Defense (DoD) restoration regulatory criteria.

DRINKING WATER

As public concern continues to grow regarding our nationwide drinking water quality, Enthalpy can support the specific testing protocols required by select regions in accordance with the Safe Drinking Water Act (SDWA). Enthalpy is committed to providing the highest quality drinking water measurements in support of public health safety.

MICROBIOLOGY

With the increasing regulatory driven need to monitor for *Coliforms*, *Legionella*, and other bacteria, Enthalpy recognizes the attentiveness required with microbiological testing services. From short hold times to the around the clock monitoring necessary, our highly-trained team is ready to provide accurate results using the most current methods in adherence to your project or permit-specific guidelines.

Enthalpy has a rich history in analytical chemistry that spans decades. Our labs analyze thousands of soil and water samples every month; we have the experience needed to address your unique projects. Our comprehensive approach includes on-site sample collection, regional courier service, and superior customer service. Our scientists and project managers work with all stakeholders to ensure data quality objectives are met for each project, and that project specific questions are addressed in advance of sample analysis.

Enthalpy has a complete offering of methods for virtually all environmental projects. Our priority focus is to provide quality analytical and customer services to all clients regardless of project size. All methods performed by our scientists follow strict conformance with Environmental Protection Agency (EPA) method guidelines as well as additional internal QA/QC criteria. From remediation sites, to groundwater investigations, to hazardous waste determination, we are your partner for success.



Environmental Toxicology



Enthalpy provides aquatic toxicology laboratory and consulting services focused on applied, science-based study design, planning, review, and regulatory support as well as analysis, integration, interpretation, and validation of toxicity data. Our multi-agency accredited laboratories conduct the full range of toxicity testing for water, sediment, soil, product, and chemical matrices. Combined with analytical chemistry capabilities, we offer our clients a single source for comprehensive environmental toxicological and analytical services.

Services

COMPLIANCE MONITORING

Full range of routine whole effluent toxicity (WET) services for effluents, storm water runoff, ambient and receiving waters, NPDES, and ASBS monitoring. Full range of marine and freshwater sediment including SQO testing, agricultural, and ambient monitoring.

DREDGED MATERIAL ANALYSIS

High capacity laboratories equipped with flow through systems partnering with federal, state, local and commercial entities to handle any size project. Wide range of biological and chemical testing including elutriates and bioaccumulation for both marine and inland dredged material evaluations.

RISK ASSESSMENT & SPECIAL STUDIES

Our team of innovative and applied scientists have extensive experience in water and sediment effect ratios, TMDLs, BMPs, and the development of other site specific criteria including soil, remediation, and other risk related activity.

Environmental Toxicology



Our team of responsive, applied experts can support your project in the fields of environmental toxicology, biology, chemistry, and ecology. Our focus is generating high quality, legally defensible data to address our clients' questions and resolve issues with credible, science-based solutions. By asking the right question it will lead to the generation of meaningful data that can be used with a high level of confidence for decision making.

PRODUCT EVALUATION

Whether you are developing, producing, reformulating, registering, or disposing of a product, our team of experts will customize a testing program for you.

CONSULTING SERVICES

Our team of technical experts provide consulting related to environmental toxicity. Our services include permit interpretation or negotiation, TRE preparation and execution, third party data review and QA auditing and project planning.

TOXICITY IDENTIFICATION EVALUATION (TIE)

Our collaborative and integrative approach to TIEs combines novel testing methods with innovative and iterative techniques to efficiently and successfully characterize the causes of toxicity in water and sediment samples.



Ultratrace

Each analyte class has its own special nuances, but certain enhancements are common to all and include:

- Using the maximum number of labeled standards that can practically be used, within commercial availability. This approach ensures the highest possible accuracy and precision.
- Quality control samples that can specifically address the most critical steps of the analysis that traditional laboratory quality control samples cannot.
- Ultra-low background levels to ensure contamination-free analyses.
- Comprehensive data assessment that offers insights into the measurement beyond simply meeting QC criteria.

Our professionals monitor every step of the analysis (and potentially the sampling) to determine if and where losses occur. Data assessment allows us to determine the best action to take to correct any problems with the sampling or analysis, leading to the delivery of the best possible data—faster.

Ultratrace analyses in the environmental sector include dioxins, PCB congeners, and PAHs, all at the lowest of detection limits (ultratrace levels), due to the very high toxicity of various members of these classes of compounds. Successful analyses at these low detection limits are demanding, and the technology involved is sophisticated. When properly implemented, the accuracy and precision of ultratrace analyses using isotope dilution technology is state-of-the-art.

Getting the best accuracy and precision possible is no accident. Our team understands the technology in depth and can pair that knowledge with your requirement to design the analysis that will best meet your needs and give you the most reliable data available in the industry.

PFAS



Services

- Dedicated Ultratrace laboratory to minimize background- and cross-contamination
- Extensive compound list
- Large sample capacity to ensure on-time delivery for all job sizes
- Senior project scientists available for test-plan development and sampling support
- Standard 10 business-day turnaround, with expedited options available
- NELAP Accreditation

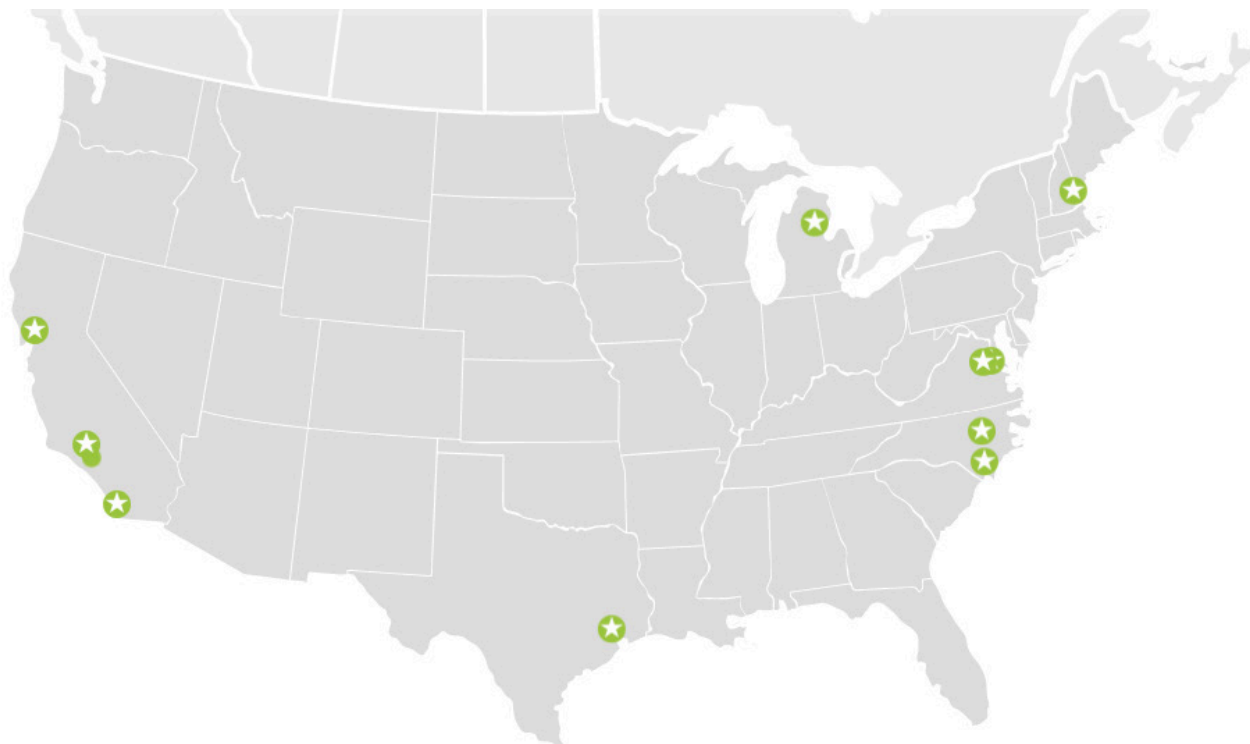
TRUSTED PFAS ANALYSIS

Per- and Polyfluoroalkyl Substances (PFAS) analyses at low detection limits requires sophisticated technology and deep expertise. The only US EPA-approved methods are 537 (for drinking water only) and 8327 (a screening method not suitable for definitive analysis). For all other matrices, we employ an isotope dilution approach — based on Table B-15 of the DoD ELAP QSM — that's widely accepted and often leads to results that exceed industry standards. These methods analyze for both legacy PFAS, such as PFOS/ PFOA, and newer PFAS such as GenX. Whenever possible, we use isotopically labeled internal standards (i.e., isotope dilution technology) to obtain the most accurate and precise results possible.

Utilizing isotope dilution improves the precision of results by approximately a factor of two over other approaches. Our team has an in-depth working knowledge of this technique, and pairs that knowledge with client- or program-specific criteria to provide the best analytical solution and generate the most reliable PFAS data available.



Reach Out



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WE'RE READY TO GET STARTED.

It's time to meet your laboratory partner.
We look forward to speaking with you about how
Enthalpy can make the difference for your next project.

For more information, please visit our Contact Us page
at www.enthalpy.com/contactus.

