



**Trinity Consultants** is a leading global environmental consulting firm that brings 50 years of experience providing services and solutions in the EHS Regulatory Compliance, Built Environment, Life Sciences, and Water & Ecology markets. Trinity has the technical expertise, industry depth, and specialized capabilities to help clients achieve their goals across the natural and built environments.

The Bakersfield office is unique in that our Environmental technicians provide on-site field services to our clients as part of continuance compliance with environmental obligations across various forms of media (i.e. air, soil, water). With each project, our goal is to exceed expectations so that our clients know they can turn to Trinity as their trusted environmental compliance partner.

The Bakersfield office field services include: Leak Detection and Repair (LDAR) Optical Gas Imaging, Exhaust Gas Sampling, Process Sampling, Stormwater Field Sampling, Ambient Air Quality Monitoring, Visible Emissions Evaluation, Waste Discharge Requirement (WDR) monitoring, and on-site EHS support.

## Leak Detection and Repair

Trinity Consultants has a reputation for excellence in providing a broad range of air quality and environmental services for companies across the nation and internationally, including Leak Detection and Repair (LDAR) assistance. Leveraging its service groups focused on Chemical and Oil & Gas industries, Trinity is knowledgeable regarding LDAR regulatory requirements and has provided compliance and field support at many facilities nationwide. Trinity also offers professional training, Compliance Management for Fugitive Emissions & LDAR, including a course tailored for the oil and natural gas industry. Training courses cover LDAR regulations and requirements applicable to the oil and gas, refining, chemical, and petrochemical industries.

Trinity's LDAR experience includes applicability and compliance support for facilities subject to New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), Maximum Achievable Control Technology (MACT), Resource Conservation and Recovery Act (RCRA), and state specific requirements, specifically:

- NSPS – 40 CFR Part 60
  - Subparts VV, VVa, GGG, GGGa, KKK, and OOOO(a,b,c)
- NESHAP – 40 CFR Part 61
  - Subparts F, J, V, and FF



- MACT – 40 CFR Part 63
  - Subparts H, I, S, CC, HH, SS, TT, UU, YY, GGG, MMM, EEEE, FFFF
- RCRA
  - Subpart BB
- California Air Resources Board: Oil and Gas Regulation (COGR)
- Local Rules in several Air Districts, such as:
  - SJVAPCD
  - SCAQMD
  - VCAPCD

Trinity also performs gap assessments of facilities' LDAR programs, reviewing LDAR programs for compliance with applicable requirements including Method 21. We also facilitate the development and implementation of LDAR programs including the following tasks:

- Defining LDAR program and training requirements
- Providing equipment assessments and associated training
- Supporting with component tag inventory auditing and tagging
- Integrating with multiple LDAR databases such as LeakDAS and FEMS

As part of Trinity's compliance management services, we provide leak detection assistance using an infrared imaging camera for visual observation of fugitive equipment leaks. The FLIR® GF320 infrared camera is able to visualize gas leaks by producing a full picture of the scanned area on the camera's viewfinder or LCD screen and allowing the user to see fugitive gas emissions as plumes. The images can be viewed in real-time and recorded for easy archival. This technology is suitable for industrial applications at oil refineries, chemical petrochemical facilities, power generation plants, and oil and natural gas production, storage, transportation, and distribution operations.

The camera can detect many gases and has been laboratory tested against 19 compounds including but not limited to benzene, butane, ethane, hexane, MIBK, and methanol.

## Ambient Air Quality and Meteorological Monitoring

We provide air quality monitoring, meteorological monitoring, and applied meteorological services. These turn-key Ambient Air Quality and Meteorological services include, system design, integration, and installation, monitoring plan development, site selection, equipment procurement, EPA acceptance testing, routine site operations, training of site personnel, calibration and maintenance, data management systems, data displays, data quality assurance data reporting and data formatting, quality assurance performance and systems audits, and emergency trips. Our field service technicians also operate fence line monitoring networks including open path systems under SCAQMD Rule 1180.

## Testo 350 Exhaust Gas Measurements

Our environmental technicians provide clients with on-site flue gas emissions testing using a Testo 350 portable gas analyzer. This analyzer provides NO, NO<sub>2</sub>, CO, O<sub>2</sub>, and CO<sub>2</sub> concentrations, and we are able to measure other pollutants upon request. Our team provides calibration data within the manufacturer specified ranges as well as under 40 CFR Part 60 Appendix B Performance Specifications for each pollutant. These analyzers are commonly used for compliance demonstration of engines, where our team will perform routine testing on a weekly, monthly, or quarterly frequency to measure concentrations. Printouts or electronic files will be provided to document tested emissions, and calibration reports. This data can then be prepared for the submittal of formal reports to the local agency so our clients can remain confident they are complying with all applicable regulations.

## Visible Emissions Evaluation

Our technicians are EPA Method 9 certified and able to observe exhaust releases, or other processes, and provide opacity readings. CARB certifications are maintained as current allowing Trinity deploy support to a client site whenever needed.

## Stormwater and Wastewater Sample Collection

The Bakersfield Office provides stormwater and wastewater sample collection to various clients as required by their permits. Our team will collect the proper samples, ensure all documentation and the chain of custody are filled out properly, and deliver the samples to certified laboratories to be analyzed. We are then able to provide assistance to the site, if necessary, based on the analysis results.

## Waste Discharge Requirements (WDR) Monitoring

The Bakersfield Office specializes in WDR monitoring and sample collection as stipulated in the site-specific Monitoring and Reporting Program (MRP) included in each WDR. Various industries (e.g.,

agriculture, wineries, food processing, mining, etc.) discharge to the land rather than bodies of water. These permits are designed to ensure loading of certain wastewater analytes do not impact the soil or groundwater to such an extent that the quality of soil or groundwater is degraded. Permits may limit a variety of process parameters and loading amounts are determined by limits set by the applicable Regional Water Quality Control Board.

Demonstration of compliance is completed with periodic reports that demonstrate pollutant loading using laboratory results for sampling of discharges to land, such as agricultural use of wastewater. Additionally, Trinity can calculate loading projections to forecast process adjustments or design changes. This can be accomplished by considering a number of factors such as discharge acres, crop type, fertilizer usage, and the climate.

## On-Site EHS Support

With our diverse staff expertise, we can provide on-site EHS support for your facility to support the local team during a high production season, backfill a vacancy while permanent resources are identified, etc. This includes support with inspections, monitoring, and reporting support as well as day-to-day problem solving of environmental and safety events such as spills, emission events, etc.

*ISO 9001:2015 certified at our corporate office in Dallas, Texas*

### CONTACT OUR TEAM!

For more information about how we can help your organization, please contact us.

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