

# Sampling Services

## Client Centered

TLI Solutions, Inc. (a TechLaw Company) has extensive experience providing field sampling and laboratory analytical services to U.S. Environmental Protection Agency, Department of Defense, and other federal agencies, municipalities, and private industry.

TLI Solutions, Inc. (TLI) provides comprehensive site investigation, characterization, and multimedia sampling services. We prepare and collect environmental and biological samples, and coordinate and manage the analytical data. Our personnel—including environmental scientists and chemists—have successfully completed thousands of sampling, monitoring, and site characterization projects throughout the United States. They stay current with requirements and technological innovations, and use state-of-the-art tools to delineate the source, nature, and extent of environmental contaminants. We offer the following:

- Proven ability to efficiently design and implement large-scale complex field sampling projects, on time and on budget
- Trained and OSHA/HazMat Certified field scientists (including lead, asbestos, hexavalent chromium, MTBE, and underground storage tanks)
- Sediment, soil sampling, soil gas sampling, and groundwater monitoring specialists
- Strict U.S. Environmental Protection Agency (EPA) and Department of Defense (DoD) protocol adherence, with compliant quality assurance/quality control and field log documentation
- Extensive field analytical capabilities and sample monitoring equipment
- Environmental sampling and analysis for air, soil, sediment, and water pollution

## Sampling Services

- Sampling and analytical plan development
- Field investigation work plan development
- Health and safety plan development
- Simple to complex multimedia sampling activities
- Multi-incremental sampling
- Field compliance oversight support
- Compliance evaluation inspections and sampling
- Comprehensive groundwater monitoring evaluation review
- Field sampling activities
- Geologic/Engineering Certification and investigation report preparation
- Geographic information systems (GIS) and computer aided design and drafting (CADD)
- Use of NELAP and ELAP certified laboratories for all DoD projects

## Analytical Services

TLI analytical laboratory and client interface is critical. We provide support in performing critical reviews and laboratory management. Our services include the following:

- Preparation of quality assurance management and project plans
- Data assessment and data validation
- Quality assurance auditing (NQA-1)
- Laboratory audit support
- Laboratory support coordination
- Sampling preparation and analytical reports
- Contract Laboratory Program (CLP) and special analytical services

## TLI Experience

TLI personnel routinely interact with



# Sampling Services

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contract and vendor analytical laboratories in support of multiple private and government clients. This requires us to be well-versed in the most current regulatory requirements, including CLP requirements and SW-846 Methods. Under several of our government contracts, we coordinate laboratory space for analytical services, perform laboratory audits for multiple analytical spectra/analysis, and ensure that all deliverables are accurate and legally defensible. The following are examples of TLI projects:

## **Federal Facility, Washington, D.C.**

TLI conducted independent sampling, split sampling, oversight of intrusive actions at suspected Chemical Warfare Materiel locations, technical review of work plans, and public meeting support.

## **Turbine Manufacturer, Massachusetts**

TLI collected over 400 sediment samples and coordinated with State regulators to update a GIS database with Global Positioning System (GPS) coordinates and analytical data.

## **Military Munitions Response Program Sampling Activities**

TLI has conducted sampling in support of the Army's Military Munitions Response Program (MMRP) at 26 installations and over 150 munitions response sites. Sampling for munitions constituents was performed in surface and subsurface soils and sediments and included multi-incremental sampling at depth for three Hawaii sites.

## **Expedited Sampling Project**

In support of a federal agency enforcement case, with only 1-week's notice, TLI prepared for a sampling event at a foundry facility and at a landfill used by the foundry for disposal. Samples were collected at these locations during a 2½-day sampling event. Samples were

logged and collected from five borings advanced into the municipal landfill. Samples were analyzed for metals and volatile organic compounds (VOCs).

## **Phase II Site Assessment**

While coordinating a Phase II for a California site, TLI collected subsurface soil and groundwater samples using a Strataprobe Direct Push Technology rig. Samples were analyzed on-site by a mobile laboratory for VOCs, Semivolatile organic compounds (SVOCs), and pesticides/Polychlorinated Biphenyl (PCB). Off-site laboratories were used to analyze for metals and nitrates. TLI prepared a field sampling plan and performed oversight during sample collection activities.

## **Former DoD Powder Storage Facility**

TLI performed an expanded site inspection providing information required to support preparation of a Hazard Ranking System (HRS) package. The site assessment determined the adequacy of previous work by addressing immediate and potential threats posed to human health and the environment. The investigation phases and field activities involved collecting over 2,000 soil, sediment, groundwater, and drinking water (residential) samples using two direct push technology rigs. Radiation field screening was performed using isotopic scanners. Radiation samples were collected from subsurface soils near select storage igloos used during the Manhattan Project. TLI coordinated a Phase I groundwater tracing investigation using fluorescent dyes to determine the interconnection between surface water and groundwater, and the direction of groundwater flow. TLI conducted data reviews for the sampling efforts, including the internal validation and evaluation of analytical data, and provided data management services for the resulting data by compiling summary spreadsheets to assist the client.