

Applied Sciences Laboratory Treatability Research Center and Analytical Services

TestAmerica's applied sciences research laboratory provides solutions for our clients' most difficult problems.

TestAmerica's Applied Sciences Laboratory (ASL) is staffed by scientific professionals who support some of the most technically challenging projects in every major country in the world. The Treatability Research Center specializes in bench scale treatment and technology development for water, wastewater, soil, and solids; and our accredited analytical laboratories produce some of the highest quality data in the industry.



Analytical Laboratory Services

To accommodate our clients' needs, ASL's analytical capabilities are constantly updated. In addition to providing standard analytical testing to support environmental remediation projects, pilot testing, and routine monitoring, ASL provides specialty testing for the following:

- Flame retardants in wastewater
- Semiconductor industry emissions
- Nonaqueous phase liquid (NAPL) mobility and hydrocarbon identification
- Disinfection byproducts (e.g., Trihalomethanes and Haloacetic acids)
- Taste and odor-causing compounds (e.g., Methylisoborneol (MIB), geosmin, and eight additional compounds)
- Trace mercury, methyl mercury, and trace metals in difficult matrices (e.g., flue gas desulfurization (FGD) and high total dissolved solids)
- Arsenic and selenium speciation

Treatability / Research Laboratory

ASL's treatability laboratory is the cornerstone of our services. Here, technologies are developed or evaluated, and processes are optimized to determine the most effective solution for meeting our clients' project objectives. Treatability evaluations may include the following:

- Jar testing and zeta potential analysis
- Ozone treatment and/or advanced oxidation (AOP) treatment
- Disinfection byproduct (DBP) formation potential tests
- Rapid Small Scale Column Tests (RSSCT) for adsorptive media
- Stabilization and solidification evaluations
- Application of new U.S. Environmental Protection Agency (EPA) leaching (LEAF) methods
- In Situ Chemical Oxidation (ISCO) testing

Certifications / Accreditations

ASL maintains some of the most stringent accreditations available in the industry, including U.S. Department of Defense and International Organization for Standardization (ISO) 17025. ASL routinely receives positive feedback from auditors and receives nearly perfect scores on blind performance tests (e.g., 99.5 percent for 3,500 tests in 2016). Additional state certifications include LA, NJ, OR, and UT (NELAP certification), and AK, AZ, CA, GA, NM, and WA (individual state certifications). Certifications and accreditations are updated or expanded based on the needs of our clients.

Consulting Services

ASL's scientists have a wealth of knowledge that has been accumulated while supporting projects worldwide. Recent projects include the following:

- Field laboratory support to provide near real-time analytical data to on-site project teams
- Laboratory development services including equipment specifications, procedure development, quality manual development, on-site laboratory audits, ISO 17025 consulting and data management and automation
- Industrial process chemical characterization
- Database application development
- Project sample plan development
- Sample collection or training

Contact us

For more information about TestAmerica's Applied Sciences Laboratory, please contact:

TestAmerica ASL Customer Services
1100 NE Circle Blvd. Suite 310
Corvallis, OR 97330
541.243.0980

Air Toxic Laboratory

ASL's air toxics laboratory performs routine testing of air samples by EPA method TO-15. Depending on a client's needs, custom air sampling equipment or analytical methods are also developed to support the following:

- Vapor Intrusion studies
- Soil gas investigations
- Ambient air studies
- Indoor air quality
- Remedial site investigations
- Total petroleum hydrocarbons (TPH) studies



Toxicology (Bioassay) Laboratory

TestAmerica's highly qualified bioassay laboratory (one of only two U.S. Department of Defense accredited laboratories in the world) provides a full range of evaluation and testing services. ASL's National Pollutant Discharge Elimination System (NPDES) / toxicity compliance experience spans a broad range of contaminants (e.g., chlorinated solvents and other organics, as well as metals) and aquatic environments (e.g., freshwater, estuarine, lake, stream, wetland, and tidal). Representative services include the following:

- Toxicity Reduction Evaluations (TREs)
- Toxicity Identification Evaluations (TIEs)
- Whole Effluent Toxicity (WET) Tests
- Toxicity Treatability Evaluations (TTEs)
- Water Quality Based Effluent Limits (WQBELs)
- Bioassay Testing and Chemical Analyses
- Criteria Development
- Permit Reviews and Evaluations
- Evaluation of Uncontrolled Releases

