

# OVERVIEW

# RADIOCHEMISTRY LABORATORIES

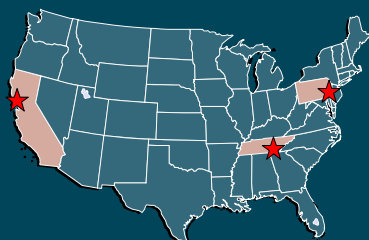


As a radiochemistry services provider since 1948, Eberline Analytical Corporation offers one of the nation's most experienced radioanalytical laboratory networks. Our capabilities include environmental, bioassay, and waste characterization radiochemical analyses of a variety of matrices for government agencies, industry, and nuclear utilities. Our radiochemistry laboratories are located in Richmond, California and Oak Ridge, Tennessee. We also offer onsite and mobile radiological laboratory capabilities.

Our Lionville Laboratory in Exton, Pennsylvania offers stable and mixed waste analyses, as well as additional experience with onsite and mobile laboratories. Our Lionville Laboratory performs organic and inorganic analyses for federal, state, and private clients. Our radiochemistry laboratories and our Lionville Laboratory have successfully partnered on mixed waste analytical projects since 1987.

## Why Eberline Analytical?

- **Extensive experience**—more than 60 years of corporate experience, including radiochemistry services to most DOE and FUSRAP sites and projects and many of the operating nuclear utilities in the nation
- **Broad radiochemistry capabilities**—environmental, bioassay, and waste characterization for a variety of matrices, and stable chemistry and mixed waste analyses through our Lionville Laboratory
- **Quality laboratory staff**—our laboratories are staffed with highly qualified and experienced personnel committed to providing quality data on time
- **Dedication to customer service**—laboratory management and project managers devoted to ensuring the success of each analytical project
- **Custom data deliverables**—capabilities to provide data deliverables in virtually any format, including electronic data deliverables (EDDs) and electronic data packages



## Highly Qualified Laboratory Network

All Eberline Analytical Corporation laboratories have impressive credentials, including radioactive materials licenses, certifications, and approvals to perform virtually any type of radiochemistry analyses. Each laboratory has an agreement state or U.S. Nuclear Regulatory Commission (NRC) radioactive materials license. All of our laboratories have been audited and approved by numerous clients, including the U.S. Department of Energy (DOE), Department of Defense agencies, and National Environmental Laboratory Accreditation Program (NELAP) states.

## Commitment to Quality

Eberline Analytical Corporation's commitment to provide technically sound, timely, and legally defensible data and services of the highest quality is embodied in its comprehensive quality assurance (QA) program. Our QA program complies with applicable, established ANSI, DOE, and U.S. Environmental Protection Agency (EPA) standards, as well as Good Automated Laboratory Practices (GALP).

## State-of-the-Art LIMS

All Eberline Analytical Corporation's laboratories have electronic Laboratory Information Management Systems (LIMS) for logging samples, tracking, scheduling, custom reporting, and invoicing. With LIMS automation, data are electronically transferred from counting instrumentation and automatically calculated, minimizing the possibility for human error. Validation software compares pre-programmed customer contract and technical specifications against analytical results. Secure, web-based access enables clients to review the status of their samples, as well as view preliminary and final data reports.



**EBERLINE ANALYTICAL CORPORATION**

*A Wholly-Owned Subsidiary of Eberline Services, Inc.*



# Laboratories at a Glance

	Oak Ridge	Richmond	Lionville
<b>Address</b>	601 Scarboro Road Oak Ridge, TN 37830	2030 Wright Avenue Richmond, CA 94804	Lionville Laboratory 208 Welsh Pool Road Exton, PA 19341
<b>Phone/Fax</b>	(865) 481-0683 (865) 483-4621 (fax) (800) 818-5606 (toll free)	(510) 235-2633 (510) 235-0438 (fax) (800) 841-5487 (toll free)	(610) 280-3000 (610) 280-3041 (fax)
<b>Laboratory Manager</b>	Michael R. McDougall	Rodney Melgard	Carter Nulton
<b>Capability</b>	<ul style="list-style-type: none"> <li>■ Bioassay (gamma spectroscopy, H3, and total U only)</li> <li>■ Radiochemistry</li> <li>■ Drinking water radiochemistry</li> </ul>	<ul style="list-style-type: none"> <li>■ 10 CFR 50</li> <li>■ 10 CFR 61</li> <li>■ Bioassay</li> <li>■ Radiochemistry</li> <li>■ Drinking water radiochemistry</li> </ul>	<ul style="list-style-type: none"> <li>■ Environmental                             <ul style="list-style-type: none"> <li>▶ Organics (VOAs, SVOAs, Pesticides, Herbicides, PCBs GRO/DRO)</li> <li>▶ Inorganics (metals, full wet-chemistry)</li> <li>▶ Specialty (explosives, PAHs, SIM)</li> </ul> </li> <li>■ Mixed Waste</li> </ul>
<b>Instrumentation</b>	<ul style="list-style-type: none"> <li>■ Gas proportional counter</li> <li>■ Gamma spectrometry</li> <li>■ Liquid scintillation</li> <li>■ Alpha spectrometry</li> <li>■ Alpha scintillation</li> <li>■ KPA (total U)</li> <li>■ Radon</li> <li>■ X-ray spectrometry</li> </ul>	<ul style="list-style-type: none"> <li>■ Gas proportional counting</li> <li>■ Gamma spectrometry</li> <li>■ Liquid scintillation</li> <li>■ Alpha spectrometry</li> <li>■ KPA (total U)</li> <li>■ Radon</li> <li>■ X-ray spectrometry</li> </ul>	<ul style="list-style-type: none"> <li>■ GC/MS</li> <li>■ GC, detectors include ECD, FID, NPD, PID, Hall</li> <li>■ HPLC</li> <li>■ Trace ICP</li> <li>■ Ion chromatograph</li> <li>■ TOX, TOC, automated chemical analyzers</li> <li>■ Liquid scintillation counter and gas flow proportional counter</li> <li>■ Cold vapor-AA mercury analyzers</li> </ul>
<b>Certifications, Accreditations, and Other Approvals</b>	<ul style="list-style-type: none"> <li>■ NELAP</li> <li>■ DOECAP</li> <li>■ USDA</li> <li>■ NJ, NY, SC, TN, UT</li> </ul>	<ul style="list-style-type: none"> <li>■ NELAP</li> <li>■ NUPIC</li> <li>■ DOECAP</li> <li>■ USDA</li> <li>■ NAVFAC</li> <li>■ CA, HI, NV, UT, WA</li> </ul>	<ul style="list-style-type: none"> <li>■ NELAP</li> <li>■ DOECAP</li> <li>■ DOD approval through Navy audit</li> <li>■ PA Agreement State Radioactive Materials License</li> <li>■ IN, KY, NJ, NV, PA, SC, TN, UT, VT, WA</li> </ul>
<b>Laboratory Space</b>	10,000 ft <sup>2</sup>	30,000 ft <sup>2</sup>	39,000 ft <sup>2</sup>
<b>Laboratory Specialties and Benefits</b>	<ul style="list-style-type: none"> <li>■ Specializes in quick-turn, high-quality environmental analyses with comprehensive data results in one to 21 days</li> <li>■ Newly remodeled lab</li> <li>■ Digital documentation available</li> <li>■ Geotechnical analyses</li> </ul>	<ul style="list-style-type: none"> <li>■ Specializes in                             <ul style="list-style-type: none"> <li>▶ High-precision, low-detection radiochemistry for bioassay</li> <li>▶ Environmental and waste characterization analyses for the commercial nuclear industry</li> </ul> </li> <li>■ Radioactive materials license allowing flexibility to receive samples with a wider range of sample activities</li> </ul>	<ul style="list-style-type: none"> <li>■ Large capacity, full-service environmental and mixed waste laboratory</li> <li>■ Onsite and mobile lab capabilities with 15 years of experience</li> </ul>



## EBERLINE ANALYTICAL CORPORATION

A Wholly-Owned Subsidiary of Eberline Services, Inc.

7021 Pan American Freeway NE | Albuquerque, New Mexico 87109

(505) 262-2694 | (505) 262-2698 (fax)

Toll free (877) 477-8989

www.eberlineservices.com