

# VALIDATION & RESEARCH SERVICES



Advanced  
Water  
Treatment  
Solutions

TROJAN **UV**<sup>™</sup>

WATER CONFIDENCE<sup>™</sup>

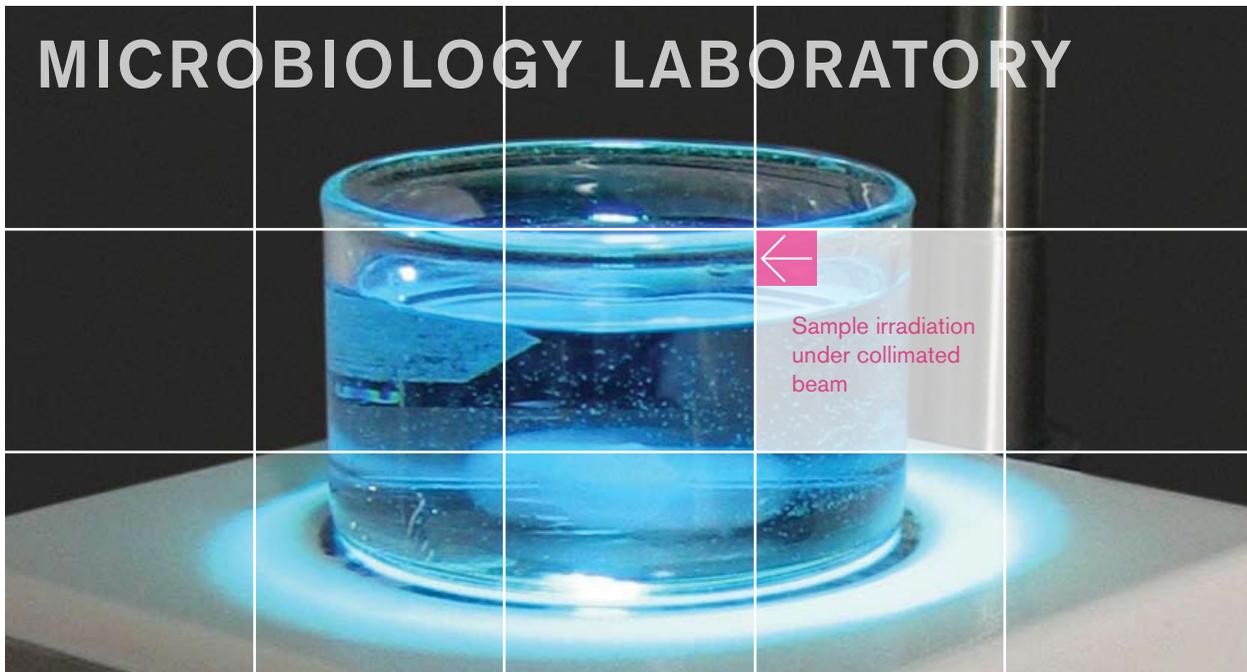
# MISSION



Trojan's Validation and Research Services Team strives to provide clients with affordable water testing services using our state-of-the-art water research testing facility and laboratories. Trojan provides high quality and comprehensive water testing and piloting services for a wide range of markets. Our researchers, scientists and engineers are able to test a variety of waters to demonstrate the efficacy of UV disinfection/oxidation processes. For existing owners of UV equipment, our services may be able to identify potential areas for process optimization, thus reducing associated operating and maintenance costs.

Trojan Technologies is registered under ISO 9001:2000. We are committed to providing high-quality value-added services by meeting or exceeding the requirements of ISO guidelines to satisfy the needs of our clientele.

# MICROBIOLOGY LABORATORY



←  
Sample irradiation  
under collimated  
beam

Our Microbiology Lab consistently delivers high quality analysis and service to our customers. We support a full range of organizations including environmental specialists, engineering and consulting firms, and drinking water and wastewater treatment plants all across North America. We also provide services to government and university researchers, federal and state-funded research projects, and well-recognized water organizations and agencies.

Our methods and procedures for routine microbiological testing follow EPA-approved methods. All of our analysts have university degree/college diploma, have received extensive training, and participate in ongoing, industry-leading, quality assurance and training programs.



In addition to microbial analysis, the Microbiology Laboratory also has the capability to perform a wide range of water tests to ensure system optimization or as a pre-screen for compliance.

In conjunction with our Process Engineering and Piloting Team, our Microbiology Lab supports many UV reactor validations/bioassays during the year through water analysis, data analysis and reporting. With proper Quality Assurance/Quality Control procedures followed and reviewed on a regular basis, this ensures high-quality results for our clients. When the quality and accuracy of your data are critical, rely on Trojan Technologies, the quality leader.

# ENVIRONMENTAL CONTAMINANT TREATMENT (ECT) TESTING SERVICES

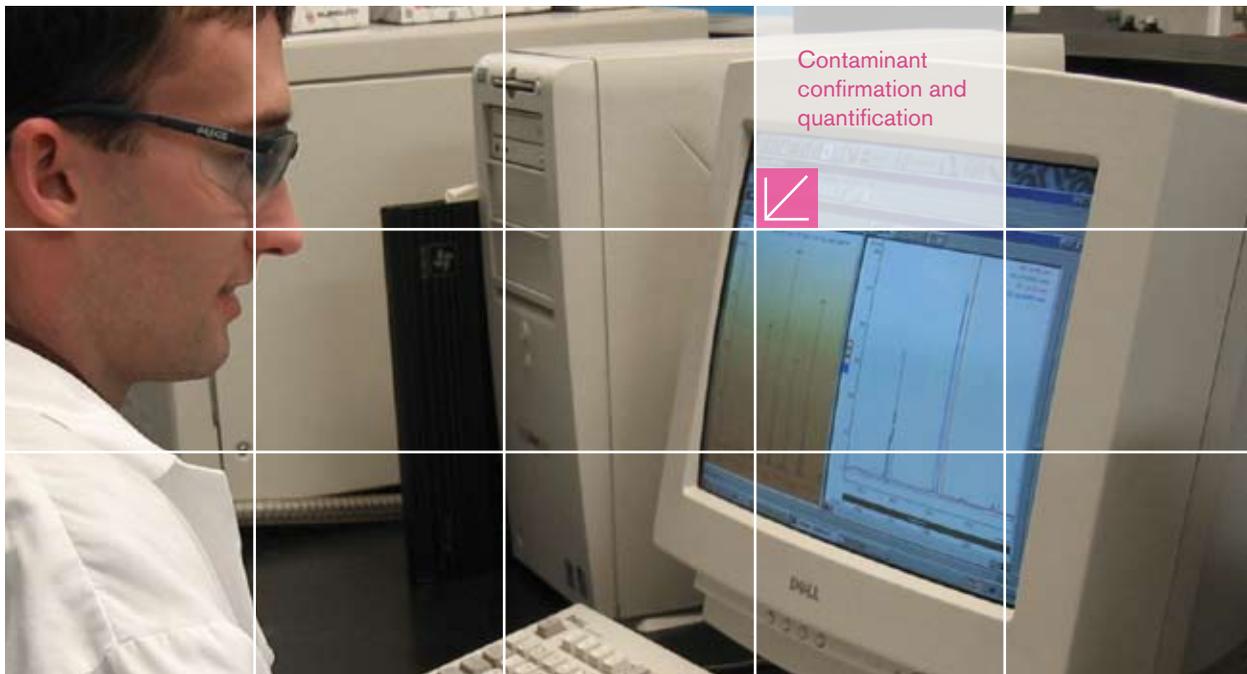


Gas Chromatograph  
(GC) auto-sampler

Trojan's Environmental Contaminant Treatment (ECT) Laboratory functions to support internal and external customers interested in the ultraviolet light (UV) advanced oxidation of micro-pollutants.

In order to monitor the treatment of chemical compounds, the ECT research team utilizes a wide range of equipment such as low and medium pressure mercury lamp collimated beam apparatus, bench-scale flow-through reactors and a pilot facility for full-scale treatment studies.

Under Standard Operating Procedures (SOP), the water quality parameters and environmental contaminants are analyzed according to the AWWA Standard Methods, EPA Methods, and various accepted standards.



Among the classes of current and emerging water contaminants studied in the ECT Laboratory are taste and odor-causing compounds, pesticides, pharmaceutical and personal care products (PPCP), endocrine disrupting compounds, solvents, and disinfection by-products (DBPs). Sample matrices include raw and treated drinking water sources, surface and groundwater, and industrial wastewaters.

# PILOTING SERVICES



Our Pilot Team strives to provide our customers with reliable, responsive, quality solutions to all their piloting needs. In every pilot, our goal is to ensure our customers feel confident in our reactor's technology and performance and comfortable in operation and maintenance of the Trojan system.

Trojan offers a wide range of UV disinfection systems for pilots treating flows ranging from 10 gallons per minute up to 30 million gallons per day. From initial inquiry to successful pilot completion, trust Trojan's Piloting Services for all your needs.

Some of Trojan's areas of expertise with respect to piloting include:

- Site-specific reactor bioassay validation
- In-house reactor challenge studies
- Logistics and project management
- Equipment set-up, operation & maintenance and classroom training
- Pilot protocol development
- Data collection, analysis, review and consultation
- Reporting
- Microbiology expertise
- Photonics expertise
- Long and short-term fouling studies



For additional information  
or a quotation on our  
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