

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Statement of Qualifications

Vol.1



[www.testamericainc.com](http://www.testamericainc.com)  
**866-785-LABS**

# Mission Statement & Values

## Vision Statement

TestAmerica will be the industry leader for environmental testing and data deliverables.

## Mission Statement

TestAmerica is committed to providing exceptional client service, highest quality legally defensible data, and the most comprehensive range of capabilities in the environmental testing industry.

## Core Values

**Integrity:** We adhere to the highest moral and ethical standards in all that we do.

**Client Service:** We strive to ensure our clients' satisfaction and success.

**Performance:** We set challenging goals, hold one another accountable, and reward results.

**Technical Excellence:** We continually invest in new technologies to provide exceptional data quality and to develop new and emerging methods.

**Teamwork:** We help each other succeed through a cooperative team effort, in an atmosphere of civility and respect.

**People:** We invest in training, professional development and career progression for our employees.

**Growth:** We manage our business for profitable and sustainable growth.



# Sustainability Statement

TestAmerica takes pride in being the industry leader for environmental testing and data deliverables. Our services enable clients to make business decisions that positively impact the environment, the importance of which is not overshadowed by TestAmerica's commitment to operating in an environmentally conscious manner. In response, TestAmerica obligates itself to achieving sustainable financial returns and respecting the environment and community within which we work and live.

Sustainability by definition is inherently broad. TestAmerica follows a sustainability framework that ensures the company operates in a manner that achieves financial success through the practice of environmental stewardship, ethical leadership and by embracing our role as corporate citizen in the communities where we work. The foundation blocks of the TestAmerica Sustainability Framework include:

**Governance, Ethics and Compliance:** Operating in a responsible and ethical manner in accordance with our ethics policy and the law, promoting ethical sales and purchasing practices;

**Employees:** Providing a rewarding, diverse, and inclusive workplace for employees;

**Environment, Health and Safety:** Capitalizing on the inherent financial and social benefits stemming from sound environmental practices and a safe and healthy workplace;

**Supply Chain:** Working with suppliers to improve their social and environmental performance and cooperatively seeking opportunities to reduce the carbon footprint relative to the delivery of services to TestAmerica laboratories and clients;

**Charitable & Community Support:** Encouraging the support of local and national charitable organizations and other initiatives that support local communities connected to our business and employees;

**Economic Impacts:** Using financial resources wisely to benefit company stakeholders and to address key sustainability issues;

**Public Policy:** Working with governments, regulators and policymakers to improve the quality of analytical methods ensuring the consistent delivery of legally defensible data.

Our employees work to integrate sustainable solutions within every business division, every service category and every department of our operations. Sustainability is integral to and embedded within all our actions and the service we provide.

# Introduction

Through strategic investment in people, technology, capital equipment and infrastructure, TestAmerica has developed the world's leading environmental testing company. Our unique combination of experience and expertise is backed by recognized industry experts and an unprecedented scale of analytical services that address an extensive range of environmental applications. TestAmerica is a leading provider of critical analytical support services to both public and private sector clients. Whether it is the Department of Defense, Department of Energy, Fortune 500 industrials, or the consulting and engineering firms that support them, TestAmerica leads the industry in developing innovative solutions to address their testing needs.

TestAmerica focuses on the refinement of methods that address current environmental issues and invests in the development of new solutions for challenges that the market and our clients anticipate facing in the future. To facilitate this process, TestAmerica routinely assumes leadership positions with a variety of environmental trade associations, regulatory review boards and lab industry steering committees. TestAmerica's leadership helps to shape how analytical solutions are brought to market, sets the standard for quality and ethics, and challenges conventional wisdom to drive an industry culture of continuous improvement. TestAmerica holds active leadership positions in each of the following organizations:

- **NELAC** - National Environmental Laboratory Accreditation Conference
- **ITRC** - Interstate Technology & Regulatory Council
- **ACIL** - American Council of Independent Laboratories
- **SAME** - Society of American Military Engineers
- **AWMA** - Air & Waste Management Association

Through a network of 36 fixed base lab operations, 33 service centers and a fleet of mobile laboratories, TestAmerica brings a unique blend of expertise and convenience to its customers. Our ability to deliver the widest variety of environmental testing services is a function of our unmatched scale. Among the large variety of testing applications TestAmerica provides are:

- Metals by ICP & ICP/MS
- Low Level Mercury
- Bioavailable Arsenic & Lead
- Alkyl Tins
- Metals Speciation
- Trace Level Volatile Organics
- Trace Level Semivolatile Organics
- Pesticides by HR/MS
- Agricultural Pesticides
- Herbicides
- PCB Congeners & Homologs
- High Resolution Dioxin & Furans
- Explosive & Energetic Compounds
- Chemical Warfare Agents
- Petroleum Hydrocarbons Bioavailability
- Radiological & Mixed Waste
- Radiobioassay & Radio Dating
- Sediments & Elutriates
- Plant & Animal Tissues
- Aquatic Toxicology
- Drinking Water
- Mold, Fungi & Legionella
- Ambient & Source Air Emissions
- Geotechnical
- Multi-Increment Sampling
- Oil Fingerprinting/Biomarkers

The expertise provided by TestAmerica, and the services we offer, are designed to address the specific requirements of a broad spectrum of regulatory programs. The ability to understand regulatory platforms, the decision criteria they drive and their prescription for quality analytical testing is critical for the development and delivery of test results that meet the needs of their intended use. TestAmerica has long led the industry in the development and refinement of analytical test methodologies for a host of regulatory programs and has often served as a member of steering committees who have shaped the standard of quality and practice for the environmental testing industry. Among the regulatory programs TestAmerica routinely supports are:

- Resource Conservation & Recovery Act (RCRA)
- Clean Water Act (CWA)
- Clean Air Act (CAA)
- Safe Drinking Water Act (SDWA)
- Comprehensive Environmental Response, Compensation & Liability Act (CERCLA)
- Superfund Amendments & Reauthorization Act (SARA)
- Toxic Substances Control Act (TSCA)
- Federal Insecticide, Fungicide & Rodenticide Act (FIFRA)
- National Environmental Policy Act (NEPA)
- Inland, Upland & Ocean Testing Manuals
- Total Maximum Daily Load (TMDL)
- National Pollution Discharge Elimination System (NPDES)
- Marine Protection, Research & Sanctuaries Act (MPRSA)
- Maximum Achievable Control Technology (MACT)
- Boiler & Industrial Furnace (BIF)
- Radioactive Environmental Monitoring Program (REMP)
- Cluster Rule
- DoD QSM, Version 4.1
- Leaking Underground Storage Tank (LUST/UST)
- Comprehensive State Brownfields Programs
- National Emission Standards for Hazardous Air Pollutants (NESHAP)





# Total Access

An overriding benefit that TestAmerica clients receive as a function of our scale and coverage is the inherent convenience in the way we deliver our services. Convenience takes on many definitions and each client's demands are unique. TestAmerica adds the element of convenience to its analytical service offering in the following ways.

TotalAccess allows you to track all aspects of your environmental data program, with instant access through your own familiar web browser. TotalAccess is a web-based project information tool that provides you with:

- Rapid Data Access
- Complete Document Management Library
- Point & Click Downloads of Project Files
- User Customized Data Reporting Functionality
- Automated Comparison Against Hundreds of Regulatory Lists
- Data Relationship & Trending Wizard
- Analytical Budget Management
- Fully Customizable User Preference Settings

TotalAccess provides TestAmerica clientele with online, secure access to services that enable faster communications, rapid access to data, and a centralized repository for all your project information. Users of the TotalAccess system benefit from having...

- Quick reference to their contacts for each site or program they manage with TestAmerica support.
- Instant notification on project status, including results, electronic deliverables and other documents generated by TestAmerica.
- Online access and download of project documentation including invoices, reports, EDDs and COCs.
- Interactive search utility for analytical capabilities and methodologies available within the TestAmerica organization.
- Interactive search utility for lab certification programs detailing which TestAmerica labs hold accreditation and for what program elements.
- Customizable displays capturing data in a single grid and single click downloads to Excel, PDF, or XPS.
- Budget management tools to keep track of analytical expenditures and purchase order ceilings.



**The TotalAccess system is available free of charge to all TestAmerica customers.**



TestAmerica is recognized as the industry's technical leader, focusing on global concerns related to environmental testing. Featuring over 30 industry professionals, TestAmerica's "Ask the Expert" program allows any individual with a question relative to environmental testing to access the thoughts and opinions of recognized experts in their field through a free, easy to use online platform.



"Of all the services requested by our customers, none is more sought after than our knowledge. All environmental decisions are in part based upon the data collected. Our customers prefer and in some cases demand the application specific expertise we provide as it adds assurance that data provided appropriately matches their decision objectives," offered Jim Miller, Vice President of Marketing and National Accounts.



# Mobile Laboratories



Environmental projects of high sensitivity and compressed timelines can require on-site laboratory support. TestAmerica has a fleet of mobile laboratories equipped to address virtually any testing application that can be done in a fixed base lab. Typical on-site projects completed by TestAmerica include site assessments, investigations, remediation, plume delineation, groundwater monitoring, natural attenuation, soil gas surveys and perimeter air monitoring.

Mobile lab analytical results are available for review in the field immediately upon completion. Results are provided after each analysis with final hard copy report provided upon completion of the sample delivery group. Data is also made available via the TotalAccess system for remote project support personnel.

TestAmerica also has an extensive history assisting clients with outsourced management of their on-site laboratory facilities. Utilizing a customer service based business model that employs commercial laboratory best practices, TestAmerica assists clients with:

- Analytical instrument procurement and maintenance
- Lab supply procurement and inventory management
- Vendor selection and management
- Establishing and managing performance metrics
- Managing operation and staffing schedules
- Work load planning and surge capacity management
- Developing internal and external client feedback systems
- Records management and storage.

TestAmerica's on-site lab management programs help clients achieve their goals of cost reduction, process improvement and system optimization. Our strategy, which is employed throughout our industry's leading network of labs, drives focus on cost control, productivity improvement and increased customer satisfaction.





# National Program Coordination

Clients interested in developing a uniform approach to contracting lab services on a national level benefit from TestAmerica's unique approach to national account support. TestAmerica is the only environmental lab services provider to offer truly national coverage through a network of over 65 business locations in the continental United States, Alaska and Hawaii as well as internationally in Bangkok, Manila, and Seoul. Our coverage allows TestAmerica to provide its national customers with a breadth and depth of service offerings that is unmatched in the industry and couple that coverage with all the conveniences offered by a local supplier. Each of our national service programs is customized to meet the unique needs of each customer and is managed through a single point of contact, a National Program Manager, capable of orchestrating the delivery of services from the entire TestAmerica network.

## Among the many benefits clients enjoy when contracting with TestAmerica on a national basis are:

### Financial

Driven by individual buyer philosophy and goals, TestAmerica develops custom service packages that create financial incentive and scale economy benefits for our clients. Supporting a variety of industry preferred e-procurement systems, TestAmerica facilitates further client savings and sustainability objectives through the use of electronic commerce technology.

### Consistency & Centralized Program Management

The TestAmerica approach to national program support drives consistency in the manner in which analytical data are developed, prepared and delivered to our clients. Our approach provides clients assurance that data they obtain to support a variety of programs under a variety of regulatory requirements is prepared with a standard of care and analytical practice that is consistent across laboratory facilities.

### Consolidation

With over 65 business locations in the United States, Alaska and Hawaii TestAmerica couriers provide more geographic coverage than any other lab in the country. Our combination of locations maintains certifications in all 50 states and under several government programs. All locations provide logistical support for sample transport to and from the lab and many locations offer sampling support to assist clients with their compliance monitoring needs. TestAmerica's broad based coverage is unique in the industry and provides clients the opportunity to centralize their program, leveraging their purchasing dollar without compromise to the service demands of their monitoring programs.

### Custom Planning

Complex projects often require project specific quality assurance plans customized to suit the needs of the regulating body. TestAmerica routinely assists its clients with evaluating project specific data quality objectives and employs appropriate analytical techniques to ensure that those objectives are consistently met.

TestAmerica SOPs are widely utilized in project plans governed by federal and state regulators and are widely recognized for their high quality standards.

When commonly prescribed test methods don't meet project specific needs, TestAmerica works cooperatively with its clients to develop sound scientific applications that deliver confidence and data suitable for its intended use. As the industry leader, TestAmerica routinely serves on industry steering committees that evaluate, refine and promote new analytical practices to address the evolving testing needs presented by emerging analytical challenges.

### Database Management

National and multi-national clients who centrally manage environmental data benefit from TestAmerica's information technology expertise. Our staff of over 100 dedicated IT professionals focuses exclusively on the delivery of data via electronic means to accommodate hundreds of client custom data management systems.

### E-Procurement

The procurement of environmental services is being revolutionized by the introduction of new on-line business software solutions that help clients efficiently manage their expenditures for environmental services. TestAmerica leads the industry by providing a dedicated team of finance professionals to assist clients with the implementation and management of their e-solutions for procuring laboratory services, saving each client significant time and money. TestAmerica supports dozens of commercial and client proprietary e-procurement systems that include:

- Ariba
- Bottomline Business
- Enfos
- Exostar
- OB10
- Oracle
- Oil-Dex
- Web-Commerce
- WebEDI
- Xign





# Personnel & Management

TestAmerica attributes its success to the professionalism and technical expertise of its people. Each person contributes directly to the company's growth and success. TestAmerica has made a commitment to its employees to help them achieve both personal and professional success.

TestAmerica employs exceptional people who welcome challenges. We value and reward high performance, hard work, honesty and teamwork. TestAmerica employees hold themselves accountable to the highest standards of ethics, trust, and quality. These high professional standards, coupled with unparalleled technical leadership, decidedly set TestAmerica apart from the competition.

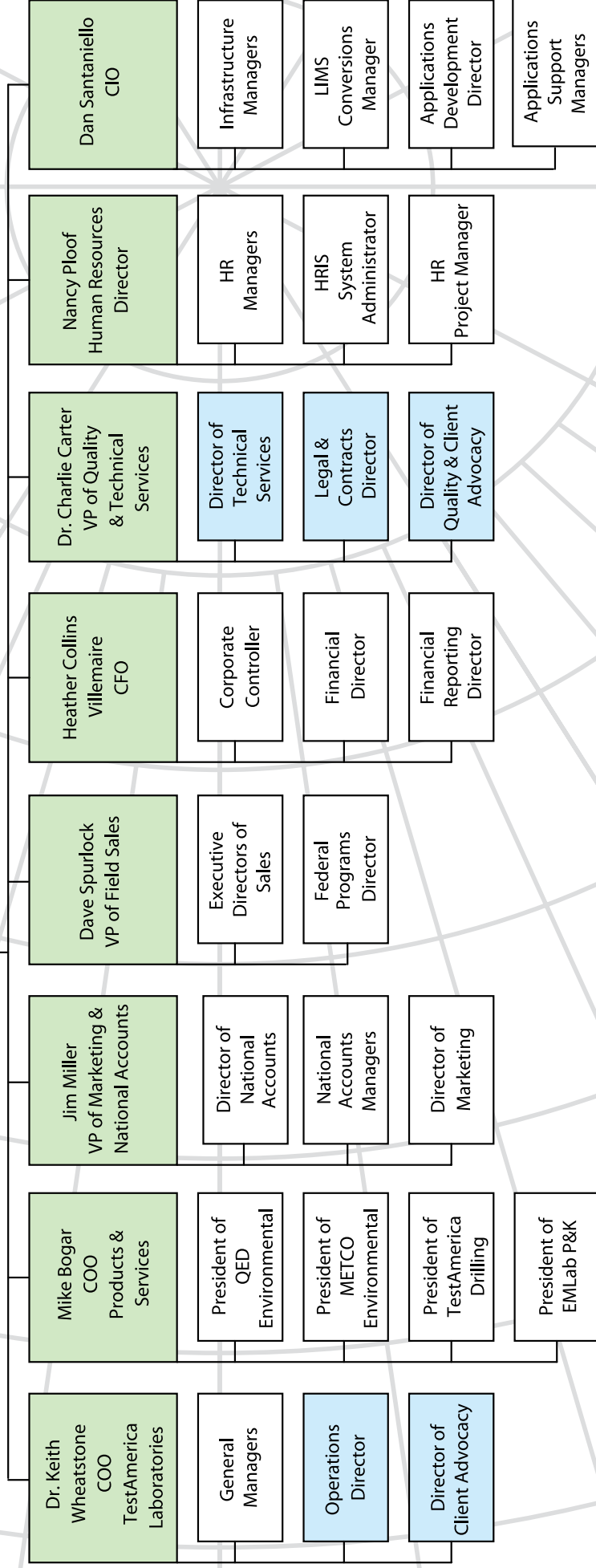
**See Organizational Chart on Page 13**





# Organizational Chart

**Rachel Brydon Jannetta**  
President & CEO



# Executive Team

## **Rachel Brydon Jannetta, President & CEO**

Ms. Brydon Jannetta is President and Chief Executive Officer of TestAmerica Laboratories, Inc. and has overall leadership responsibility for all the TestAmerica businesses. Ms. Brydon Jannetta is a member of and reports to the Board of Directors of TestAmerica Environmental Services, LLC. She is a Fellow of the Chartered Association of Certified Accountants and started her career working in the Bank of Scotland. After a subsequent 16 years in finance and general management roles, Ms. Brydon Jannetta served as Managing Director of Severn Trent's UK Laboratories, then President & CEO of Severn Trent Laboratories in the U.S., also joining the Board of Directors of Severn Trent Plc in 2004. She currently serves as a Director of WaterAid America, a philanthropic organization providing drinking water and sanitation facilities to Third World countries. Ms. Brydon Jannetta has 16 years of experience in the environmental testing industry.



## **Dr. Keith Wheatstone, Chief Operating Officer**

With a Ph.D. in Analytical Chemistry and over 40 years of environmental laboratory experience, Dr. Wheatstone is responsible for the daily management of all TestAmerica Laboratories facilities. The COO's responsibilities include allocation of personnel and resources, long-term planning, and development of technical policies and management plans. Dr. Wheatstone is a Chartered Scientist, Chartered Chemist and a Fellow of the Royal Society of Chemistry (UK).



## **Michael J. Bogar, Chief Operating Officer, Products and Services**

With over 25 years of executive management in marketing, sales, operations and business leadership, Mr. Bogar is responsible for the daily management of all of the Products and Services businesses. The COO's responsibilities include the development and execution of business plans for all the Products and Services businesses.



## **Heather Collins Villemaire, Chief Financial Officer**

Ms. Villemaire has 19 years experience in the environmental testing industry, with various management and officer positions including Controller and Director. She graduated Summa Cum Laude with a degree in Business Administration and completed the Leadership and Executive Development Programs at Wharton. As CFO, she is directly responsible for management of the finance, accounting, treasury, and purchasing functions for TestAmerica.



## **James Miller, Vice President Marketing & National Accounts**

Mr. Miller is responsible for the company's National Client Programs and marketing related efforts, reporting to the President and CEO. Mr. Miller holds dual degrees in Chemical Engineering and Journalism. Mr. Miller previously worked with Occidental Petroleum Corporation as well as various media outlets. Mr. Miller has 23 years of experience in the environmental industry, 20 of which he served in various officer posts.

## **Dr. Charles Carter, Vice President Quality & Technical Services**

Dr. Charles Carter is Vice President of Quality and Technical Services, reporting to the President and CEO. In this role he has overall responsibility for corporate quality assurance and laboratory technical development, and he is also involved with legal issues, contracts, health and safety, and information technology efforts. Dr. Carter has a Ph.D. in environmental chemistry, has over 30 years experience in the environmental laboratory industry, and is a recognized industry expert in numerous areas of environmental and analytical chemistry. He has been active in various industry organizations and is a frequent speaker at environmental forums and conferences.



## **David B. Spurlock, Vice President Field Sales**

Mr. Spurlock is Vice President of Field Sales for TestAmerica Laboratories, Inc. and has overall leadership responsibility for the field and federal sales teams. He works in close association with Jim Miller, Vice President of Marketing and National Accounts. Mr. Spurlock holds a B.S. degree in Business Administration from Robert Morris University and has 25 years of leadership experience in the clinical laboratory industry with such companies as SmithKline Beecham, Quest Diagnostics, and LabCorp Inc.

## **Dan Santaniello, Chief Information Officer**

Mr. Santaniello is CIO, reporting to the President and CEO. In this role he has overall responsibility for information technology and Laboratory Information Management Systems (LIMS). Mr. Santaniello has a B.S. in Electrical Engineering and has over 17 years of experience gained through various information technology and operations management roles in the environmental lab industry. Mr. Santaniello is an industry leader in his field having designed several LIMS and on-line environmental data systems in commercial use today.



## **Nancy Ploof, Human Resources Director**

Ms. Ploof serves as the Human Resources Director responsible for leadership, functional expertise, and strategic direction for the management of human resources throughout the organization. She works closely with all levels within TestAmerica to identify and implement necessary HR strategies. She holds an A.A. in Human Resources Management from Baker College located in Flint, MI. She holds the Professional in Human Resources Management accreditation (PHR) from SHRM since 2000. Ms. Ploof has 15 years of environmental testing industry experience, 11 of which have been in the HR field.

# Senior Management Team

## Chip Meador, General Manager

Mr. Meador earned his B.S. and M.S. degrees in Botany/Ecology at the University of Florida. He has been a General Manager since 2007 and has worked in a variety of management roles in the environmental industry since 1980. He is experienced in all aspects of laboratory operation and management and is very familiar with RCRA and many aspects of hazardous waste management.



## Scott Morris, General Manager

Mr. Morris, as General Manager, has overall leadership responsibility for 10 TestAmerica laboratory locations based in Alaska, California, Hawaii, Oregon and Washington as well as Southeast Asia. In 13 years with the TestAmerica organization, he has served in a variety of leadership roles including General Manager, Laboratory Director, Procurement, Marketing and Business Development. Mr. Morris' experience also includes mergers and acquisitions as well as post merger integration. Mr. Morris earned an MBA at the University of Warwick in Coventry, England and his undergraduate degree from UCE Birmingham, England.

## Chris Oprandi, General Manager

Mr. Oprandi has been in the analytical industry since 1988. He began his career as a laboratory technician and then advanced into laboratory management where he is currently General Manager. Mr. Oprandi is skilled in designing improvements to increase capacity and in identifying and eliminating production bottlenecks. He is experienced in all aspects of laboratory management: production control, project management, database management, quality assurance, environmental health & safety, business development and customer relations. Mr. Oprandi has extensive management and leadership experience. He has developed and implemented numerous training programs addressing both the technical and leadership functions of the business.



## Dr. Jack Tuschall, General Manager

Dr. Tuschall earned his Ph.D. and M.S. degrees in Environmental Engineering Science at the University of Florida. He has been a General Manager for TestAmerica and predecessor companies for the past 9 years. Dr. Tuschall has extensive experience in managing full-service analytical laboratories; analytical methods development; design, implementation, and management of environmental monitoring programs; trace organic, inorganic, and mixed-waste analyses; design and implementation of quality assurance programs; and production and use of analytical reference standards. His diverse experience in the environmental analytical chemistry field provides the foundation for successfully leading the Mobile, Nashville, Orlando, Pensacola, Tallahassee and Tampa laboratories. In addition to his General Management responsibilities, Dr. Tuschall is the Director of Best Practices, Environmental Health and Safety Director and is responsible for fostering Continuous Improvement through the development and implementation of best practices across the company's laboratories.

## Rusty Vicinie, General Manager

Mr. Vicinie is responsible for the operations of TestAmerica laboratories in Knoxville, Dayton, Canton, Pittsburgh, King of Prussia, Edison and Burlington. Mr. Vicinie's professional expertise includes environmental chemistry focused on air toxics, sediment and tissue analysis as well as having a background in industrial hygiene and clinical laboratory services. He holds degrees in both Chemistry and Biology with graduate work conducted in the areas of Analytical Chemistry and Pharmacology. Mr. Vicinie has 29 years of analytical laboratory experience with 20 of those years being in the environmental practice.





## **Dr. Richard Burrows – Director of Technical Services**

Dr. Burrows is the Technical Director for TestAmerica's network of laboratories in the United States. His duties include implementing new technology, improving existing methods and leading technical groups within TestAmerica. Dr. Burrows has over 25 years of experience in analytical chemistry working in both academic and commercial laboratories of which 18 years have been in the environmental laboratory field. He has been actively involved with environmental methods and techniques through the U.S. Environmental Protection Agency (USEPA) and American Council of Independent Laboratories (ACIL). His method development work has involved bringing new perspectives to method detection limits, calibration, quality assurance and quality control and method development. Dr. Burrows is currently a member of the Environmental Laboratory Advisory Board and is twice a recipient of the ACIL Preston Millar Award. Dr. Burrows received his B.S. in Chemistry and Ph.D. in Analytical Chemistry from the University of Bristol in England.



## **Sharon Gordon – Legal and Contracts Director**

Ms. Gordon is responsible for contract review, negotiation, general legal matters and oversight of contract compliance for the entire TestAmerica group of companies. Ms. Gordon regularly conducts training for company employees on contracts, as well as ethics and compliance issues. Ms. Gordon is an attorney, with degrees from Hastings College of Law (JD) and U.C.L.A. (B.A. and Masters in Environmental Planning), and a member of the State of California and Kansas Bar Association. She has 34 years of legal experience including 29 years experience in the environmental consulting field, 16 of which have been with environmental testing laboratories.

## **Bosco Ramirez – Operations Director**

Mr. Ramirez has operational responsibilities that include defining standard operational policies, development and provision of training, as well as operational tools and process development. He also is responsible for the temporary takeover and management of individual laboratory operations during periods of transition. Reporting directly to the Chief Operating Officer, Mr. Ramirez works closely with the General Manager team to address operational needs throughout the TestAmerica network of laboratories. Mr. Ramirez holds a Masters Degree in Analytical Chemistry and brings over 20 years of experience in the environmental laboratory field where he has held positions as Lab Director, Technical Director, Quality Assurance Director and Client Services Manager.



## **Ray Frederici – Director of Quality and Client Advocacy**

Mr. Frederici is highly experienced with 28 years in the environmental testing industry and extensive leadership & management expertise. He possesses excellent abilities for financial management, strategic planning, performance monitoring, policy development and enforcement. As a strong and decisive decision-maker, he takes personal responsibility to spread customer service awareness and lead organizational improvements and solve problems. Through concise communication, presentation, technical writing and technology/computer expertise, he is an organizational change agent.

## **Tim O'Shields – Director of Client Advocacy**

Mr. O'Shields is a passionate, self-motivated professional with 29 year of experience in the environmental laboratory business. Mr. O'Shields' roles have ranged from positions in laboratory and corporate management to roles in technical leadership. He has spent a number of years in developing and delivering comprehensive leadership development programs. Most recently, his role includes development of programs and training to enhance client service company-wide to Best in Class. This role includes hands-on work across the company for process improvement. Major strengths are technical depth, laboratory operations, business management, leadership team development, quality assurance, process improvement, action planning to resolve issues and for business growth, and business development.



# Resources

As the world's leading environmental testing company, TestAmerica offers an unparalleled collection of physical resources designed and managed to support the wide and varied needs of our clientele. Strategically positioned expertise and a carefully orchestrated system of planned redundancy provides a platform for the delivery of analytical services that meets the exacting needs of hundreds of regulatory and client programs while providing the capacity to address peak demand without compromise to client schedules and budget.

## Facility & Instrument Summary

TestAmerica Laboratories		Major Instrument Summary										
Facilities Size, Employees and Major Instrumentation	Square Footage of the Labs	Laboratory Employees	TOX	TOC	IC	Wet Chem Autoanalyzers	ICMS	ICP	ICP/MS	CVAA- Hg	CVAFS - LLHg	CVAFS - MeHg
Anchorage Laboratory	3600	5										
Austin Laboratory	27000	40		1		3		2	1	1		
Bangkok, Thailand Laboratory	3300	10						1				
Buffalo Laboratory	30000	100	2	1	3	3		2	1	2		
Burlington Laboratory	41000	80		3	2	4		3	1	2		
Cedar Falls Laboratory	12000	45	2	1	1	2		2		1		
Chicago Laboratory	51000	70	1	2	2	3		3		5		
Connecticut (Shelton, CT) Laboratory	16000	40		2	1	1		2		1		
Corpus Christi Laboratory	15000	30		1		1		2	1	2		
Dayton Laboratory	20000	60		1	1	1		2	1	1		
Denver (Arvada) Laboratory	54000	120	3	3	7	4		4	2	2		
Edison Laboratory	49000	130		3	1			4	1	2		
Honolulu Laboratory	6400	10						1		1		
Houston Laboratory	30000	60		1	2	1		2		1		
Irvine Laboratory	40000	120		4	15		2	2	2	1		
King Of Prussia Laboratory	10000	46				1		2	1	1		
Knoxville Laboratory	29000	50			3		1	2		1		
Los Angeles Laboratory	11000	20										
Mobile Laboratory	15000	50	3	1	1	1		1	1	2		
Nashville Laboratory	48000	125	3		3	3		3		3		
North Canton Laboratory	51000	100	2	1	2	2		2	1	2	2	1
Pensacola Laboratory	20000	48		1	1	2		1		1	1	
Phoenix Laboratory	24000	60		1	4	3		3	1	2		
Pittsburgh Laboratory	34000	69	2	2	1	2		3	2	2		
Portland (Beaverton) Laboratory	20000	60		1	4	2		1	3	2	1	
Richland Laboratory	40000	35						1				
San Francisco (Pleasanton) Laboratory	21000	35		1	1			2		1	1	
Savannah Laboratory	55000	100	2	2	4	3		1	2	1		
Seattle Laboratory	20000	27	1	1		2		1	1	2		
Spokane Laboratory	6000	6			1			1		1		
St. Louis (Earth City) Laboratory	31000	85	2	2	3	2		2	1	2		
Tallahassee Laboratory	26000	40		1	1	3		2		1		
Tampa Laboratory	14000	47		2	2	3		2		3		
Valparaiso Laboratory	15000	35		1	2	3		2	1	1		
Watertown Laboratory	11800	36			1	1		1			1	
West Sacramento Laboratory	66000	85	3	4	4	2		2	2	1		
Westfield Laboratory	10000	32		1	2	2		2	1	2		
<b>Total</b>	<b>976100</b>	<b>2111</b>	<b>26</b>	<b>45</b>	<b>75</b>	<b>60</b>	<b>3</b>	<b>69</b>	<b>27</b>	<b>53</b>	<b>6</b>	<b>1</b>



## TestAmerica Laboratories

## Major Instrument Summary

Facilities Size, Employees and Major Instrumentation	HPLC	CI/MS/MS	LC/MS/MS	GC (various detectors)	GC/MS	HRGC/HRMS	Alpha Spectrometer	Gamma Spectrometer	Gas Proportional Counter	Liquid Scintillation Detector	Kinetic Phosphorescence Analyzer
Anchorage Laboratory				6	1						
Austin Laboratory				20	12						
Bangkok, Thailand Laboratory				1	1						
Buffalo Laboratory	1			17	12						
Burlington Laboratory	4		1	19	28						
Cedar Falls Laboratory	1			10	9						
Chicago Laboratory	5			12	11						
Connecticut (Shelton, CT) Laboratory				6	10						
Corpus Christi Laboratory	1			10	6						
Dayton Laboratory				13	11						
Denver (Arvada) Laboratory	3	1	4	26	21						
Edison Laboratory				21	26						
Honolulu Laboratory				6	4						
Houston Laboratory	1			16	9						
Irvine Laboratory				25	32						
King Of Prussia Laboratory				7	10						
Knoxville Laboratory	2			7	9	3					
Los Angeles Laboratory				5	5						
Mobile Laboratory	1			9	7						
Nashville Laboratory	4			60	35						
North Canton Laboratory	2			12	15						
Pensacola Laboratory	1			21	9						
Phoenix Laboratory	4		1	13	7						
Pittsburgh Laboratory	2			12	12						
Portland (Beaverton) Laboratory	2			16	8						
Richland Laboratory							286	12	78	8	2
San Francisco (Pleasanton) Laboratory				9	12						
Savannah Laboratory	2			17	18						
Seattle Laboratory	1			11	12						
Spokane Laboratory				3	2						
St. Louis (Earth City) Laboratory	2		1	10	9		76	8	64	3	2
Tallahassee Laboratory	5			13	6						
Tampa Laboratory				8	9						
Valparaiso Laboratory	1			4	6						
Watertown Laboratory	2			4	5						
West Sacramento Laboratory	4		3	12	11	7					
Westfield Laboratory				16	9						
<b>Total</b>	51		10	477	409	10	362	20	142	11	4

# Accreditations and Certification

## Quality Assurance

TestAmerica is committed to providing the highest quality data and the best overall service available in the environmental testing industry. To ensure that data produced and reported by TestAmerica meet the requirements of our clients and comply with the letter and spirit of municipal, state and federal regulations, we maintain a quality system that is clear, effective, well communicated and supported at all levels of the organization.

Under the supervision of the Corporate Quality Director, TestAmerica has instituted a culture of quality that is a product of its organizational design, comprehensive training programs and industry leading systems of checks and balances. TestAmerica quality programs are governed by a corporate quality manual that defines our business policies and management practices, and articulates our systems for quality control, quality assessment and quality improvement. It is our policy to:

- Provide high quality, consistent and objective environmental testing services that meet all federal, state and municipal regulatory requirements
- Generate data that are scientifically sound, legally defensible, meet project objectives and are appropriate for their intended use
- Build continuous improvement mechanisms into all laboratory, administrative and managerial activities
- Maintain a working environment that fosters open communication with both clients and staff.

TestAmerica analyzes Proficiency Test (PT) samples as required for accreditation and as outlined in the National Environmental Laboratory Accreditation Conference (NELAC). Each facility participates in the PT program semiannually for each area of testing and matrix (e.g. organics, inorganics, microscopy, radiological, microbiological, aqueous and drinking water) for which it is certified.

Proficiency Testing scores are a key performance measure of company performance capability. Laboratory scores are monitored to ensure continuous improvement and sustained high achievement. TestAmerica consistently ranks above industry-wide proficiency testing norms.

## State & NELAP Accreditations

The TestAmerica network of laboratories collectively maintains laboratory certifications, accreditations and/or approvals in all 50 U.S. states. All TestAmerica laboratory facilities hold NELAP accreditation as well. TestAmerica is an active member of the NELAC community, chairing a number of committees and participating in the development and implementation of the national standards, now set as requirements under the program. TestAmerica maintains accreditations with sufficient redundancy between laboratories to enable work sharing on national, regional and local levels. This includes maintaining redundant method capabilities and technologies to manage large program sample volumes.



## Federal Accreditations

TestAmerica had the first laboratory to be audited and approved under the new DoD Environmental Laboratory Approval Program (ELAP) and now has 11 facilities accredited under the program. TestAmerica has been closely involved with the DoD's development of the new accreditation program, and has made many contributions that are included in the new DoD Quality Systems Manual (QSM) Version 4.1. TestAmerica is also active in Department of Energy (DOE) programs with multiple facilities having successfully passed DOECAP audits. Additionally, TestAmerica is a participant in the USEPA Contract Laboratory Program and has 15 facilities with membership in the USEPA Environmental Response Laboratory Network (ERLN) and Water Laboratory Alliance (WLA).

**See Certification Table on Page 22**

## Accredited to Work in Canada

TestAmerica's Nashville, TN and TestAmerica's Savannah, GA laboratories are accredited in accordance with international standard ISO 17025:2005 for a defined scope and meet the principles of ISO 9001:2008. These TestAmerica laboratories maintain an ISO 17025 compliant scope of accreditation through the internationally recognized accreditation body American Association for Laboratory Accreditation (A2LA). Based on a mutual recognition agreement generated by the International Laboratory Accreditation Cooperation (ILAC), these TestAmerica laboratories have been recognized as meeting the international requirements of ISO 17025:2005 and as qualified to provide environmental testing support for Canadian environmental interests in many Canadian Territories and Provinces.

## Electronic Data

TestAmerica provides electronic data deliverables (EDDs) to numerous government and commercial clients. EDDs can be provided in many TestAmerica standard formats, or can be customized to meet client requirements. We currently provide EDDs in various ASCII, Access, DBF and Excel spreadsheet file formats.

While offering many standard formats, most EDDs are customized to meet our clients' individual requirements, some of which are very complex. TestAmerica employs a technical staff that is dedicated to EDD development and client consultation, ensuring that electronic data provided to our clients are accurate and formatted to meet the clients' exacting requirements.

## Health and Safety

TestAmerica is committed to providing a work environment that is free of recognized environmental safety and health hazards. It is TestAmerica policy that all work will be conducted in a manner that is safe to the employee, the community and the environment. We believe that every employee can work without injury or unreasonable exposure to hazardous work conditions. We further believe that all work can be done in a manner that protects the environment.

The TestAmerica Environmental Health & Safety Director (EHSD) ensures our commitment to operating a safe and environmentally sound business is not compromised. Under the supervision of the EHSD, each business unit has a designated Environmental Health & Safety Coordinator (EHSC), who is responsible for ensuring that health and safety operating policies and practices are adhered to at all levels of the operating unit they oversee.

# Certification Table

City	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	Florida	Georgia	Guam	Hawaii	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri	Montana
Anchorage		X		X	X				X	X		X					X	X	X	X	X	X	X	X			
Austin				X	X				X	X				X		X	X	X	X	X	X	X	X	X	X		
Buffalo				X	X				X	X				X		X	X	X	X	X	X	X	X	X	X		
Burlington								X	X					X		X	X	X	X	X	X	X	X	X	X		
Cedar Falls					X					X		X		X		X	X	X	X	X	X	X	X	X	X		
Chicago	X				X					X		X		X		X	X	X	X	X	X	X	X	X	X		
Connecticut							X																X				
Corpus Christi															X												
Dayton		X		X	X	X	X		X	X			X	X		X	X	X	X	X	X	X	X	X	X		
Denver	X	X	X	X	X	X	X		X	X			X	X		X	X	X	X	X	X	X	X	X	X		
Edison							X	X				X										X					
Honolulu				X					X			X								X							
Houston			X		X						X									X							
Irvine			X		X						X																
King of Prussia				X	X	X	X		X	X		X			X	X	X	X	X	X	X	X	X	X	X		
Knoxville				X	X	X	X		X	X		X			X	X	X	X	X	X	X	X	X	X	X		
Los Angeles	X			X					X	X	X					X	X	X	X	X	X	X	X	X	X		
Mobile	X			X					X	X	X								X						X		
Nashville	X	X	X	X	X	X	X		X	X				X		X	X	X	X	X	X	X	X	X	X		X
North Canton					X		X		X	X				X					X						X		
Ontario SC																											
Orlando SC									X																		
Pensacola	X		X	X	X				X	X				X		X	X	X	X	X	X	X	X	X			
Phoenix			X		X																						
Pittsburgh				X	X		X		X					X			X										
Pontiac SC																								X			
Portland		X			X				X			X															
Portland			X		X	X			X			X		X													
Richland					X	X			X			X															
San Francisco				X	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X	X	X		
Savannah	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Seattle			X		X																						X
Spokane		X																									
St Louis		X			X				X					X		X	X	X	X	X	X	X	X	X	X	X	
Tallahassee									X		X									X							
Tampa	X								X	X					X												
Valparaiso														X	X												
Watertown																								X			
West Sacramento				X	X	X			X	X	X	X							X								
Westfield																					X						



# Project Experience

As the industry leading provider of environmental analytical services, comprised of 36 operating laboratory units combining hundreds of years of experience, TestAmerica has developed broad based experience in support of a multitude of environmental projects for public and private sector clients alike.

## Automotive

- TestAmerica provides comprehensive analytical support to one of the nations largest automotive manufacturers supporting a variety of compliance programs, waste management needs and large scale remediation efforts. Projects often involve analysis of a full range of organic and inorganic parameters covering a variety of environmental media to include; wastewater, groundwater, sediment, soil, concrete & waste matrices. TestAmerica routinely coordinates specialty analytical services through a network team to address large scale and complex investigation programs.
- TestAmerica developed and deployed a mobile lab unit to a remote Midwestern destination to assist with a 3-year PCB investigation and remediation program at a large auto manufacturing facility. Services required included the analysis of dozens of samples daily with confirmed data due the same day samples were delivered. Confirmation and quality control support was provided by TestAmerica fixed base laboratories. Results produced from the mobile lab were reported following Level IV data package requirements.

## Brownfields

- TestAmerica has provided ongoing support for the State of Hawaii Brownfields program, funded by Federal grants. Supporting brownfield redevelopment efforts at a former MSW Incinerator facility, TestAmerica performed analyses for heavy metals for a variety of investigation and cleanup actions over the past five years, and most recently has implemented multi-incremental sample processing procedures for large (2 Kg) sample composites coupled with up-scaled (10 g) metals digestion procedures. TestAmerica has provided Level IV data packages for third party validation for all sites supported under this program.
- TestAmerica provides analytical support to an Eastern U.S. environmental consulting firm at six discreet project locations in support of Brownfields site assessments and redevelopment activities. Project analytical requirements include Volatile Organic Compounds (VOC), Semi-Volatile Organic Compounds (SVOC), Pesticides, Polychlorinated Biphenyls (PCBs), Polyaromatic Hydrocarbons (PAHs), Herbicides, Total & Dissolved Metals, and inorganic parameters. Four of the six sites were funded by EPA Brownsfields Pilot Project money therefore requiring full CLP analytical protocols and data packages prepared for third party validation.
- TestAmerica provides services at a former chrome plating shop located in California, working cooperatively with a global environmental engineering firm under a USEPA Brownfields grant. Hundreds of soil and groundwater samples have been analyzed to date for VOCs, metals, and hexavalent chromium, often requiring final results within 24 hours of sample receipt at the lab.

## Building and Construction

- TestAmerica worked cooperatively with a national environmental services company to complete a long-term project involving a bridge expansion in the greater Philadelphia area. Critical to project success was our ability to meet demanding turnaround time requirements on a large volume of samples for a wide range of analyses. Analytical requirements included DRO-QAM, volatile and semi-volatile organic compounds, RCRA characteristic parameters, sulfur, metals, herbicides, and total organic halides. Project specific communication standards were developed to ensure client and project expectations were met and the project completed on time and on budget.
- TestAmerica has provided extended support services for a large RCRA investigation conducted in conjunction with a major airport expansion in Ohio. Testing demands include the analysis of subsurface samples used to delineate the nature and extent of site contamination. Services are also being provided to support the facility NPDES program for process and storm water discharges as well as general waste characterization services.



## Chemical Manufacturing

- TestAmerica provides comprehensive analytical and logistical support for a major petrochemical corporation. Services are provided for multiple facility compliance programs to include industrial discharge, RCRA waste characterization, groundwater and ambient air monitoring. Additionally, method development studies were also conducted to facilitate the transfer of responsibilities from a client operated environmental lab to TestAmerica.
- TestAmerica provides analytical support for a major chemical company, including analyses of all environmental media for Appendix VIII, Appendix IX, TCL and TAL compounds and elements, providing QC oversight involving replicate confirmation sampling and analysis. Continued support is provided for a CERCLA driven remediation program at additional operating units (OUs) including analytical support for remedial investigation, feasibility study and remedial action steps.
- TestAmerica has worked in conjunction with state and federal agencies to provide ongoing method development and analytical support services for the evaluation of PCBs in water, sediment and biota matrices on behalf of a major chemical company. Several hundred samples of varied matrices have been characterized for PCB Aroclor and Homolog mixtures employing GC-ECD and GC/MS-SIM methodology. TestAmerica staff worked in close association with regulators and company representatives to develop techniques to provide method comparison studies contrasting EPA SW846 Method 8082 and a modified GC/MS Method 680 SIM technique for PCB quantification. Several hundred fish fillet composites of various fresh water species were evaluated employing both techniques during a two-year lake study.
- TestAmerica has been performing daily, monthly and quarterly NPDES sampling and analysis for a major chemical manufacturing company, meeting their regulatory requirements for discharge monitoring. Analyses include various inorganic analyses on a daily basis, 7 days a week, 365 days a year. Sample collection is performed by TestAmerica staff using composite samplers. Additional monthly and quarterly testing includes Volatile Organic Compounds (VOCs), semi-Volatile Organic Compounds (SVOCs), Polychlorinated biphenyls (PCBs), Metals, and general chemistry.

## Consumer Goods

- TestAmerica provides sampling and analytical services to a major fragrance manufacturer supporting the company's compliance monitoring program. Daily, monthly and quarterly NPDES discharge samples are collected and analyzed for each of three facilities, one of which also requires semi-annual ground water sampling and analysis. All field sampling and analyses are performed in accordance with applicable state guidelines. A wide range of organic and inorganic constituents are routinely monitored, including several program specific compounds performed by the lab specifically to meet the requirements of this client.
- TestAmerica performs sampling and analysis services for a major food, home care, and personal products manufacturer. TestAmerica field technicians complete numerous client requirements on-site, which include preparation of maintenance field logs and sampling field logs for multiple locations. On-site field support is required daily, 365 days a year. Summary data and activity reports are compiled and submitted monthly and submitted electronically. Additionally, TestAmerica prepares Industrial Self-Monitoring Reports (SMR) for submittal to the local sanitary district and prepares NPDES required Monthly Monitoring Reports (MMR) for submittal to the state agency.
- TestAmerica, in support of a nonprofit applied science and technology development company, performs analysis of air particulates, water, soil/sediment, milk, wine, vegetation, lichen, wildlife, vegetables and silica gel for the following isotopes: Americium, Carbon, Curium, Gamma Isotopes, Gross Alpha, Gross Beta, Iodine, Plutonium, Radium, Strontium, Technetium, Thorium, Tritium and Uranium (Isotopic and Total).

# Project Experience

## Department of Defense (DoD)

- TestAmerica has provided continued support to an international environmental and engineering firm in support of their efforts at the Massachusetts Military Reserve, a very high profile Department of Defense project location. Currently in the third phase of project execution, TestAmerica provides rapid turnaround analysis for an ongoing groundwater project. Select drilling process samples are analyzed and reported on a 24-hour TAT basis allowing for continuous, uninterrupted field drilling activities. TestAmerica developed a modification to EPA method 8330 to address a need for lower soil reporting limits, allowing for the quantification of trace levels of explosive residue ten times lower than standard method protocols.
- TestAmerica continues to support an international consulting/engineering firm at a number of Federal Department of Defense sites throughout the country. Support is provided for soil, sediment, water, and waste samples. Analyses are performed following the DOD QSM or the AFCEE QAPP, depending on the site. Level IV data packages, ready for third party validation, are provided along with the appropriate electronic data deliverables (ERPIMS or ERIS).
- TestAmerica provides support to a global consulting engineering firm for RFI and risk assessment efforts conducted at Altus AFB. AFCEE 3.0 protocols are followed and modified for Appendix IX analytes. Primary samples are analyzed for volatiles, semi-volatiles, and metals. Periodically samples are analyzed for pesticides, explosives, anions, dissolved gases, radiochemistry parameters and dioxins. All deliverables are provided as full raw data packages in both hard copy and CD-ROM formats. EDDs are submitted in AFCEE's ERPIMS 4.0 format.
- TestAmerica provides full-service laboratory support to a Department of Defense installation conducting analyses for Volatile Organic Compounds (VOCs), PAHs, PCBs, pesticides, hydrazine, NDMA, and a variety of metals and inorganic parameters in soil and water samples employing SW-846 methods and following AFCEE 3.1 protocol. Data deliverables include long-form raw data and a customized electronic deliverable. Under this project, TestAmerica has provided research and development support for the analysis of hydrazine to ensure compliance with state requirements.
- TestAmerica has provided analytical support to multiple environmental engineering firms managing projects at a Midwest located Department of Defense Army Ammunition Arsenal for the past 12 years. Work was performed following the Army Shell document, and subsequently graduated to Corp District specific guidelines. TestAmerica worked closely with USACE to support the development of this unique program, including providing R&D work to develop soil grinding techniques used in multi-incremental sample processing. Analytical support to date has involved full TCL/TAL Organic and Inorganic parameters, various general chemistry analyses and TCLP analyses as well as explosive and energetic compounds. Report deliverables include Level IV data package and client specific electronic data files.
- TestAmerica works as a subcontractor to a USACE/HTRW prime contractor, providing support for semi-annual groundwater sampling events conducted at various operational units within Fort Wainwright, AK and other military sites. Groundwater and soil samples are analyzed for GRO, DRO, RRO, VOCs, SVOCs, PAH SIM, Pesticides, PCBs and Metals and wet chemistry methods. All work is performed in accordance with the DOD QSM with full COE prescribed data packages including EDF and SEDD electronic deliverables.
- TestAmerica provides routine support to a USACE district office conducting chemical and radiochemical analyses on a variety of sample types for a noted FUSRAP site. Often, samples result from emergency response related activities and require rapid turnaround time support for the Hazardous, Toxic, and Radioactive Waste (HTRW) program.





## Department of Energy (DoE)

- TestAmerica participates in many studies conducted in and around Department of Energy plants located in Oak Ridge, TN and Kansas City, MO. Concerns over PCB levels contained in native fish tissues have resulted in the establishment of several biomonitoring studies. TestAmerica began supporting the projects during the 2006 monitoring event analyzing more than 300 fish and clams over the last three years for PCB aroclors by SW 8082 and for PCB congeners by 1668A. Dragonflies were also analyzed for PCB congeners by 1668A.
- TestAmerica has supported ongoing efforts at the Savannah River Site (SRS), providing analytical services for chemical, physical and radiochemical analyses on a variety of different matrices including soil, sediment, sludge, groundwater, surface water, waste matrices and building materials such as wood, concrete, metals, and painted materials as required. All analyses are performed under strict adherence to the DOE Quality Systems for Analytical Services (QSAS) Version 2.4.
- TestAmerica performs analysis of urine and fecal tissue for routine and rapid turnaround times to support a large scale personnel exposure monitoring program. Analysis is conducted for the following isotopes: Americium, Plutonium, Strontium, Thorium, Tritium and Uranium (Isotopic). In support of this program, TestAmerica supplies a contract specific customized data report and EDD format.

## Emergency Response

- TestAmerica, teaming with a major environmental engineering firm, successfully responded to an off-hours spill at a leading telecommunications provider. The coordinated effort involved the receipt and processing of a large number of samples on a Friday afternoon of a holiday weekend. Results were furnished immediately upon completion allowing the response team to initiate a remedy the very next morning.
- The TestAmerica network of laboratories collaborated to support emergency level support effort for an impacted river and aquifer caused by the accidental release of fly ash sludge. TestAmerica led the effort to supply high-quality data to identify and define the physical and chemical characteristics of fly ash, soils, groundwater, surface water, sediment, drinking water, biota, and macro invertebrates in support of the recovery effort. Data was used for characterization and for assessing the degree of remediation achieved, as well as potential litigation.
- TestAmerica provided analytical support for an emergency response effort resulting from a fire at a Midwest chemical manufacturing facility. Work included accelerated turnaround of a high volume of soil and water samples analyzed for metals, organic and wet chemistry parameters. Post emergency response work continued with waste classification analyses required for waste disposal and soil, groundwater and drinking water analyses conducted to assess residual environmental impacts associated with the chemical fire. TestAmerica continues to provide long-term monitoring support to the site.

# Project Experience

## International

- Through facilities in Southeast Asia, TestAmerica provides support for multiple multinational oil companies with monitoring projects associated with the operation of offshore oil platforms. Sample matrices include seawater, sediments, and biota for the determination of PAHs, particle size, metals and TPH at challenging low reporting limits. TestAmerica also provides technicians for onboard sample extraction and analysis.
- TestAmerica provides analytical services and field support for international consulting firms conducting Phase II site investigations and underground storage tank projects in several Asian countries. Data are produced to meet USEPA, international and country-specific technical and defensibility criteria. TestAmerica assists by providing project management, coordinating international sample shipments and furnishing technical support covering multiple countries, including very remote project locations.
- TestAmerica has provided lab support to the investigation and remediation of a large closed exploration and production tract in South America for an international oil and gas corporation. An in-country lab was established to facilitate quick turnaround time requirements and assist with sample logistics for samples being returned to the United States. Lab support included full range organics with metals analyses along with Level IV deliverables.
- TestAmerica provides support to an international environmental consulting company, analyzing samples from various site assessments, investigations and monitoring programs conducted at retail gas stations, terminals and refineries located throughout Latin America, South America and the Caribbean. Analyses of sediment, soil and groundwater typically include Petroleum Hydrocarbons, PAHs, BTEX/MTBE/Ethanol, metals and various inorganic analyses. TestAmerica coordinates international shipments of samples and sampling supplies to and from the field addressing a variety of country specific requirements and restrictions.

## Mining

- TestAmerica has been providing analytical services in support of a large remediation project at a mining site in Southern Nevada. A full range of analytical tests are provided to include: Appendix IX 8260 and 8270, metals, hexavalent chromium, pesticides and PCBs, cyanide, full wet chemistry analysis, 1625C for NDMA, low level 1,4-dioxane, PCBSA, perchlorate and radiochemistry analyses. TestAmerica's service center in Las Vegas has been used to stage sampling equipment and provide courier service to facilitate moving large sample volume and time sensitive samples.





## Oil & Gas Refining & Marketing

- TestAmerica prepared and deployed a mobile lab facility to support the excavation and removal of a retired pipeline in Dutch Harbor. The mobile laboratory obtained full certification by Alaska DEC. This project called for the analysis of hundreds of environmental samples under 24 hour turnaround conditions. Results were provided on time routinely following project specific requirements for electronic data transfer.
- TestAmerica has conducted an ambient air monitoring program to a consortium of petrochemical refineries in the Gulf Coast region for more than 20 years. This ongoing project involves analysis by TO-15 (GC/MS) of more than 160 organic compounds in a single analytical run with part per trillion (PPT) reporting limits.
- TestAmerica provides research and development services in support of proprietary product identification projects for companies in the petroleum industry. The laboratory works with clients to help establish effective test methodology for the identification of unique organic compounds. Addressing these analytical challenges often requires modification to routine preparatory and analytical methods resulting in a customized approach to product identification.
- TestAmerica has been assisting a major petrochemical refinery for several years with their compliance monitoring and hazardous waste classification programs. Analytical testing involves a wide range of wet chemistry analysis and TCLP for both organic and inorganic constituents on a variety of challenging matrices covering over 100 samples per month.
- TestAmerica is the sole contracted lab supporting system monitoring samples at a large former oil terminal pipeline conducting facility remediation. The analytical support for this project requires the analysis of over 300 samples monthly for VOC + TPH compounds. To meet customer specific needs for this project, TestAmerica invested in specialized sampling media and delivers a customized data deliverable.

## Power Utilities

- TestAmerica provides analyses of soil, groundwater and building debris, working cooperatively with a national consulting engineering firm to support the decommissioning of a major nuclear power facility. TestAmerica maintains NRC materials handling licenses and provides for the safe handling of all samples taken during the decommissioning process. Samples are analyzed for Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Pesticides and Polychlorinated Biphenyls (PCBs), Metals and Wet Chemistry parameters.
- TestAmerica continues to offer support to a global environmental consulting firm conducting investigation and remediation of land contaminated with by-products from manufactured gas plant operations. TestAmerica provides analytical services that include the analysis of Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs) as well as total particulates and metals in air samples using NIOSH methods: NIOSH 1501, NIOSH 5506, NIOSH 0500 and NIOSH 7300. Data provided is used to support risk assessments for a nearby residential area.
- TestAmerica provides support to a major Texas based power company for their transformer maintenance and spill remediation programs. Daily support requires routine analysis of a large number of transformer oil samples for PCBs to ensure compliance with EPA regulations and to address clean-up of contaminated sites.
- TestAmerica provides analytical services for groundwater compliance monitoring at multiple locations for a large energy company with operations throughout New Jersey. Sites range from active, operating substations to closed manufactured gas plant (MGP) facilities. Site-specific analytical programs encompass testing for organic, inorganic, general chemistry, biological, and monitored natural attenuation parameters. TestAmerica field service teams provide low-flow groundwater sample collection services in accordance with NJDEP Field Sampling protocols following client specific site safety protocols.
- TestAmerica provides analytical support on a large remediation effort for a large energy company located in the southeastern United States. This project requires daily sample delivery to the lab, encompassing a 2-3 year project life cycle. All samples are analyzed for a variety of metals and inorganic parameters on an accelerated turnaround basis so that ongoing disposal and treatment decisions can be made, minimizing costly project interruptions. Client specific QA protocols have been established to meet data usability requirements and all data is provided in a Level IV data package. Customized multi-file EQUIS deliverables are included with the delivery of each data set. Total number of samples exceeds 500 per month on average.

# Project Experience

## Steel & Primary Metals

- TestAmerica provides support to a multi-national steel making organization on an environmental dredging project involving PCB contamination. During the height of the project, dredging operations were conducted 24 hours per day, 6 days per week. An ambient air monitoring program was conducted during dredging activities to assure that the nearby residents and workers were not exposed to fugitive air contaminants that could adversely affect human health. TestAmerica analyzed more than 700 samples for PCB Aroclors using method TO-4A, PAHs by TO-13A and volatiles by TO-14/TO-15. All samples were done on a fast turnaround time basis. Monitoring for volatiles by TO-15 remains ongoing.
- TestAmerica has performed compliance analytical services for the world's leading beverage can maker at 11 locations nationwide since 1990. Through centralized project coordination, TestAmerica employs its network of laboratories to meet this client's national testing demands. The laboratories analyze compliance samples on a monthly basis as well as perform waste characterization services. Summary data packages for submittal to the facilities' local agencies.

## Sediment Management

- TestAmerica, in support of private industry, provides analytical support for a river sediment investigation in eastern New York. The river has been the subject of a major investigation and remediation effort addressing Polychlorinated Biphenyl (PCB) contamination. TestAmerica continues to provide support to a Fortune 500 company engaged in remedial action for contaminated sediments playing a significant role by performing approximately 20,000 analyses to date for PCBs in sediment. Samples are analyzed using a modification to traditional methodology to address site-specific and matrix concerns resulting in high quality data used to make critical decisions throughout the remediation process.



## State Government

- TestAmerica, in support of the State of New York, Department of Environmental Conservation (DEC), receives samples from all NYSDEC regions to address the analytical requirements of remedial investigations, discharge evaluations, spill responses and state Superfund activities. TestAmerica performs all analyses adhering to the NYS Analytical Services Protocol (ASP), which mimics EPA CLP Methods. Sample matrices include wastes, soils, drinking waters, groundwaters, sediments, discharge samples and air. This contract requires strict adherence to the required methodologies resulting in high quality, legally defensible data for the State of New York.
- TestAmerica maintains analytical support contracts with each of three major engineering firms holding primary contracts with the Illinois State Department of Transportation. In this capacity TestAmerica performs a broad range of analyses for statewide assessments and investigations. In over 10 years of support provided under this program, TestAmerica has uniquely positioned itself to address the program's custom requirements.
- TestAmerica is the primary laboratory supporting development of the Hawaii Department of Health Technical Guidance Manual (TGM) for sampling and risk assessment. Support includes application of draft TGM procedures to determine efficacy at selected sites over the past two years. One site in this effort consisted of a former agricultural property at a remote island location that required testing for Organochlorine Pesticides, Organochlorine Herbicides, Triazines, Carbamates, Metals, SVOCs, and Dioxins as a prerequisite for a housing development. TestAmerica provided solutions to help resolve problematic sample transport logistics from the site. In addition, TestAmerica developed and applied the first-ever super-scaled (5 Kg) multi-incremental sample processing application for a number of the tested parameters, conducting leachability studies on all positive samples, and pioneering commercial lab implementation of the Ruby-Drexler sample preparation technique to determine the 'bioaccessible' component of detected arsenic concentrations.
- TestAmerica is the primary laboratory supporting an ambient air monitoring project within residential dwellings. This ambient air program is under the control of a state government agency and is highly visible within the public domain. TestAmerica has dedicated approximately 180 summa canisters and 130 flow controllers exclusively for use by this client. Canisters are supplied to the client on a weekly basis, batch screened for both SIM and SCAN modes of EPA Method TO-15, maintaining a seamless cycle of appropriate sampling media to the field for systematic project execution.
- TestAmerica worked with the Florida Department of Environmental Protection (FDEP) to validate analytical techniques used for the identification of 1,4-dioxane following 8260SIM methodology. TestAmerica was the first laboratory in Florida certified for analysis of 1,4-dioxane by 8260SIM.
- TestAmerica has proliferated its analytical capabilities to expand its test offerings specific to the evaluation of Hexavalent Chromium in environmental samples. TestAmerica currently serves as the lead lab for an extensive NJDEP project addressing the evaluation of background chromium concentrations in urban soils. Processing thousands of samples for state driven programs, the laboratory not only complies with the difficult New Jersey data validation guidelines but also performs other non-routine procedures, such as the Japanese Slab Cake method.

# Project Experience

## Transportation

- TestAmerica has provided ongoing environmental testing services for a major transportation company since 1982 with sites located throughout the eastern US. A variety of matrices have been evaluated for environmental compliance which include water, soil, waste, complex organic matrices, and air. Routine analytical services include the testing of various matrices for volatile organics, semivolatile organics, metals and wet chemistry parameters for groundwater and surface water monitoring, and waste evaluation programs. Special methodology has been developed to meet unique regulatory compliance concerns, ensuring that minimum reporting levels are achieved despite complex matrix interferences. Data deliverables are customized to meet regulatory and data management needs.
- TestAmerica currently supports a comprehensive remediation effort for a 240-acre rail yard working in conjunction with a major consulting engineering firm. High sample volumes and quick turnaround are required to monitor the extent of impacted groundwater, groundwater treatment effectiveness, soil remediation effectiveness and to keep stockpiles moving. Over 700,000 cubic yards of soil has been excavated to date. Samples are analyzed for 8260, 8270, 8015, Metals, STLC and TCLP parameters. Customized quality assurance plans were developed to address challenging matrix and site conditions. Data reports and electronic deliverables were also customized to address client specific needs.

## Waste Management

- TestAmerica holds a national contract with a national waste management firm to provide sampling and analytical services throughout the United States. TestAmerica conducts a wide range of environmental analyses for several hundred solid waste landfills under this agreement, assisting the client with meeting their regulatory compliance requirements. In addition, at selected locations OSHA trained field personnel are provided to collect groundwater, surface water and leachate samples. TestAmerica provides automated sample scheduling services, site specific sample kits, long term data management and client specific data handling supporting a wide variety of reporting formats.
- TestAmerica maintains a unique support arrangement with a Midwest area industrial waste recycling facility providing waste screening and characterization services as well as process related testing. TestAmerica services are uniquely designed to ensure the efficient daily operation of the facility and uninterrupted service to facility clients.

## Water Treatment

- TestAmerica supports an international environmental and natural resource management firm with water quality monitoring for a large scale TMDL program. Analytical services designed to meet specific TMDL requirements are provided at various water bodies throughout the Southeastern United States. Analysis conducted include; low-level ortho and total phosphorus, TKN, nitrates, coliform, alkalinity, TDS, TSS, color, turbidity, chlorophyll A, anions and metals.
- TestAmerica is the primary laboratory supporting a large-scale drinking water program for a major California utility company. Required analyses fall under EPA Title 22 regulations, many of which are conducted under 24-hour turnaround conditions. TestAmerica orchestrates a statewide sample transport system picking up samples at various locations in the state and delivering them to the lab within time to address short hold-time parameters. Project specific communication standards have been developed to immediately notify the client for any positive results, including weekends and holidays. Five different report types are needed as dictated by project specific requirements.
- TestAmerica provided analytical support for a wastewater treatment plant pilot study in south Florida. This study was designed to evaluate treatment of reuse water as a potential source used to recharge local aquifers currently used to provide community drinking water. Samples were collected daily, weekly and monthly with over 1500 samples being studied. Analytical requirements included full list organic and inorganic analyses utilizing wastewater, potable water and pharmaceutical and personal care products (PPCP) methodologies.

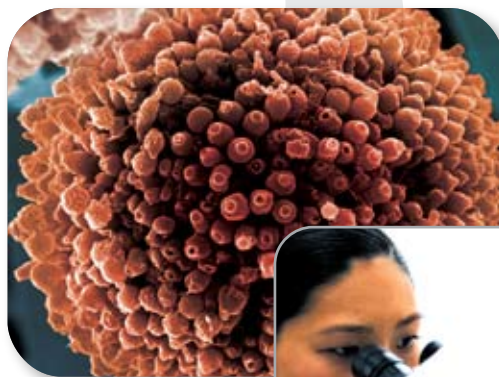


# TestAmerica Products & Services Businesses

TestAmerica affiliates include EMLab P&K, the leader in analytical microscopy and indoor air quality testing; QED Environmental Systems, Inc., the leading supplier of groundwater sampling equipment and remediation pumping systems; TestAmerica Drilling Corp., provider of innovative environmental and geotechnical drilling, and TestAmerica Air Emissions Corp. (METCO Environmental), specializing in air emissions testing.

## EMLab P&K

is the leading indoor air quality (IAQ) testing laboratory in North America, specializing in lab analysis of air and surface samples for mold, fungi, bacteria, asbestos and allergens with more accredited locations and analysts than any other lab in the nation. EmLab P&K is committed to providing outstanding service, quality and support to industrial hygienists, laboratories, state and local public health departments, hospitals and IAQ professionals.



## QED Environmental Systems, Inc.

is the leading international supplier of air-powered pumping systems for groundwater sampling, groundwater remediation and landfill liquids. QED developed products include:

- MicroPurge<sup>®</sup> low-flow groundwater sampling equipment
- AutoPump<sup>®</sup> remediation and landfill air-powered pumps for use in severe conditions of solids, solvents, corrosives and high temperatures
- Genie<sup>®</sup> systems selectively pump floating layers of hydrocarbon
- E-Z Tray<sup>®</sup> air strippers remove VOC's from groundwater and waste water



# TestAmerica Products & Services Businesses

## TestAmerica Drilling Corp.

is a leading drilling contractor in the western United States, specializing in environmental, geotechnical, and infrastructure subsurface investigations. Their innovations include the industry's first decontamination trailer, limited access drill rigs and well surface completion toolings. TestAmerica Drilling is widely recognized for its ability to deliver your project on-time and on-budget.



## METCO Environmental

is a leader in source emissions testing, serving a full spectrum of industries including, refining, petrochemical, combustion and utilities, both in the U.S. and internationally. METCO has built a reputation for exacting sampling methods and rigorous quality control, based on having sampled over 25,000 sources. METCO is staffed by highly qualified and trained, full-time professional employees who maintain the highest safety standards in the industry.



## Notes:

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