

**Elizabeth Witten** | District Environmental Principal, CMC, CMRS

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### Professional Summary:

Ms. Witten has over seventeen years of experience in the indoor air quality industry. Project management duties include bid and proposal preparation. Environmental cost control, coordinating emergency response to hazardous materials spills, review and audit spill related reports, manifests, invoices, and other related documentation. Regulatory review and environmental reporting to state and federal agencies. Inspections and sampling for biological and chemical contaminants in residential, commercial, educational, healthcare, industrial, and governmental structures. Total and respirable dust sampling, total and viable fungal sampling, bacterial sampling, endotoxin sampling, mycotoxin sampling, allergen sampling, volatile organic compound (VOC) monitoring, asbestos inspection and sampling, water sampling, and other industrial hygiene services. Laboratory results interpretation. Remediation specifications preparations. Post remediation verification inspection and analysis. Indoor comfort parameter studies/ ASHRAE standard surveys. Catastrophe / Hurricane related response coordination, project management, and inspections. Operation and maintenance procedure preparation.

### Licenses and Certifications:

Certified Microbial Consultant, # 0709001

Certified Microbial Remediation Supervisor, # 605032

EPA/AHERA/ASHARA Building Inspector, 16130

HAZWOPER Certified, #749969

### Project Experience:

Tyrrell County School Systems – Columbia, NC

Catastrophe Response

Ms. Witten was responsible for managing the catastrophe response for the school system following hurricane Irene. Responsibilities included bacteria and mold testing, drying verification, remediation specification and oversight, and project management.

Pensacola Retirement Village – Pensacola, FL

Catastrophe Response

Ms. Witten was responsible for testing the facility for mold damage, remediation specifications, and project management following Hurricane Ivan.

Bank of America Vault – Fulton County, GA

Indoor Air Quality

Ms. Witten was responsible for testing the facility for the presence of nicotine and volatile organic compounds.

North Fulton Hospital – Alpharetta, GA

Mold Investigation

Ms. Witten was responsible for testing the facility for mold damage, remediation specifications, and project management following water damage on multiple levels of the facility.

Marriott Hotel – Nassau, Bahamas

Catastrophe Response

Ms. Witten was responsible for testing the facility for mold damage, and remediation specifications following Hurricane Michelle.

Northrop Grumman Ship Systems – Pascagoula, MS

Catastrophe Response

Ms. Witten was responsible for testing the facility for mold damage, remediation specifications and oversight, onsite lab set-up and management, and project management following Hurricane Katrina. The facility contained 83 buildings over 178 acres. The project lasted ten months. Ms. Witten continues to consult Northrop Grumman and the United States Navy for the property located in Pascagoula.

Northrop Grumman Ship Systems – Gulfport, MS

Catastrophe Response

Ms. Witten was responsible for testing the facility for mold damage, remediation specifications and oversight, onsite lab set-up and management, and project management following Hurricane Katrina. The facility contained 30 buildings over 125 acres. The project lasted four months.

Randolph County Courthouse – Cuthbert, GA

Mold Investigation

Ms. Witten was responsible for testing the historic courthouse for mold damage, remediation specifications and project management following water damage on multiple levels of the courthouse from several sources.

Almark Foods, Inc.

Operation & Maintenance Planning

Ms. Witten was responsible for inspecting the facility for water migration issues, indoor air quality, and to prepare an operation and maintenance plan to improve the indoor air quality and product quality.

Bank of America- Atlanta, GA

Asbestos Testing

Ms. Witten was responsible for inspecting the facility for indoor air quality, indoor comfort parameters, asbestos inspection and sampling, water sampling, rodent infestation, and to prepare a remediation protocol.

Rollover- Middleton, NY

Spill Response

Ms. Witten was responsible for coordinating emergency response to a fuel spill, review and audit of the fuel spill manifests, invoices, and other related documentation. Regulatory review of the project and environmental reporting to state and federal agencies in New York.

High Museum – Atlanta, GA

Environmental Consultation

Ms. Witten is the environmental consultant for the High Museum and the Woodruff Center for the Arts in Midtown, Atlanta. In addition, Ms. Witten also conducts environmental testing and consultation for the Atlanta Art Conservation Center. Ms. Witten provides consultation regarding photographs, antiques and heirlooms to some of the most important paintings, sculptures, and works on paper.

Department of Defense- Georgia

Indoor Air Quality

Ms. Witten was responsible for inspecting their facilities for indoor air quality, indoor comfort parameters, HVAC system function, and prepared recommendations for improving indoor air quality within their facilities. Ms. Witten continues to consult for the DOD on their properties located in Georgia.

### Professional Experience:

Unified Investigations and Sciences, Inc., District Manager, June 2017 – June 2018  
EFI Global, Southeastern Catastrophe Manager, August 2005 – May 2017  
EFI Global, Lead Microbiologist/Industrial Hygienist, June 2001 – August 2005  
Kelly Services, Microbiology Lab Director & Operator, August 2000 – June 2001

### Specialized Education:

Post Restoration Verification Sampling of Wildfire Smoke Contaminants, IAQA May 2018.  
A Look Into the Bio Hazard Remediation Field and the New ANSI/IICRC S540 Standard. IAQA March 2018.  
Advanced Legionella Workshop, EMSL October 2017.  
Mold Assessment in Accordance with ASTM D7338. IAQA, April 2017.  
EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, February 2017.  
An Overview of Vapor Intrusion: What It Is, Where It Comes From, and Why It's an Issue. IAQA, February 2017.  
JACI-In Practice: Updates on Effects and Assessment. IAQA, February 2017.  
Hospital Construction Monitoring and Hospital Acquired Infections, IAQA February, 2017.  
Infection Control During Construction, Renovation, Maintenance In the Healthcare Setting-The Role of the Industrial Hygienist; ERMI Testing, IAQA, November 2016.  
Evaluating Post-Fire Smoke Contamination in Indoor Air. IAQA, March 2016.  
Roundtable Discussion on Difficult & Unusual Investigations and Remediation, IAQA, May 2015.  
Georgia Bad Faith in First and Third Party Claims, Southern Loss Association, November 2015.  
EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, October 2015.  
Classifications and Clarifications of Pesticides Chemical Coatings, IAQA, August 2015.  
Basic Fire and Subrogation, Southern Loss Association, July 2015.  
Ethical Claims Investigations for the Adjuster, Southern Loss Association, June 2015.  
Negative Air Machines- Calculations, Filtration, Maintenance, Testing of Efficiency, IAQA, May 2015.  
Standards of Care, Indemnities, Contracts, & Mold Liability Issues, IAQA, February 2015.  
Practical Approach to Assisting Sensitized Individuals; Partnership of IAQA and ASHRAE. IAQA, February 2015.  
New HAZCOM GPS, Alternative Ways to Detect Surface Metal Contamination by X- Ray Fluorescence, IAQA, November 2014.  
Pretrial Mediation by Judge Markle, Southern Loss Association, September 2014.  
Vapor Intrusion Sampling with Simplicity and Automation. IAQA, August 2014.  
Building Codes as Related to Construction Defects, Premises Liability and Professional Liability, Southern Loss Association, July 2014.  
IAQ Problems & Solutions, History, Visual Assessments, IAQA, May 2014.

EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, April 2014.  
Changes to the IICRC S-500, IAQA, February 2014.  
Legionella: Biology, Detection, and Remediation, IAQA November 2013.  
Fungal Data Interpretation, EMLab P&K June 2013.  
Overview of VOC's in the Indoor Environment. IAQA, August 2013, PCR Air Sampling: CDC/NIOSH Atlanta Mold Study, IAQA, May 2013.  
EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, April 2013.  
Roof Assessments, Southern Loss Association, March 2013.  
EPA & IAQ: Indoor Air Plus. New HAZCOM GPS, February 2013.  
How to Keep out of the Litigation 'Force Field'! Poria Ingrassata-a Wood Destroying Organism, IAQA November 2012.  
Wood Rot Fungi – Ecology, Recognition, Identification, and Prevention, Air Scrubbers – Appropriate Selection and Proper Use, IAQA, August 2012.  
EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, July 2012.  
Window and Door Claims, Southern Loss Association, June 2012.  
Recently Released Reports, Methods and Policies: What They Mean for IAQ Workers, The Elusive Water Molecule and the Building Envelope. IAQA, May 2012.  
There is More to an IAQ Investigation Than Just Mold. Carpet: Four Major Issues - Formaldehyde, Caprolactan, Styrene and Cleaning Maintenance. IAQA, February 2012.  
HVAC Inspection and Cleaning According to NADCA Standards, The Science of Drying Structures, IAQA, November 2012.  
PCR Air Sampling, CDC/NIOSH Mold Study, Dust Monitoring. IAQA, November 2012.  
Salmonella Heidelberg and Other Multi-Drug Resistant Salmonella, Department of Food & Science, Canada, August 2011.  
EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, July 2011.  
USP 797 Compliance Requirements and Testing, EmLab P&K, June 2011.  
Going Green with Infrared: Identifying Energy Waste with the FLIR Camera, IAQA, May 2010.  
Introduction to Bacteriology, EmLab P&K, April 2011.  
Asbestos in Cement Pipes and AHERA in Schools; Gas-Phase Filtration - The Often Overlooked Solution to IAQ Problems, IAQA, November 2010.  
EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, 2010.  
Hydrogen Peroxide and Chinese Drywall, IAQA November 2009.  
Overview of the Fungal Kingdom and IAQ Related Topics, November 2009.  
Overview of ASHRAE 62 & Update of the Draft ASHRAE 189, IAQA, August 2009  
EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, 2009.  
Mold and Moisture: Guidance for Clinicians and Public Health Professionals, University of Connecticut School of Medicine, October 2009.  
Mold Contamination in Ductwork & HVAC systems, HVAC System Inspection and Maintenance, Indoor Air Quality Association (IAQA), February 2008  
EPA/AHERA/ASHARA (TSCA Title II) Asbestos in Buildings: Inspector Refresher, The Environmental Institute, 2008.  
Lead Inspector: EPA (Target Housing & Child Occupied Facilities), The Environmental Institute, 2008.

#### Education:

Bachelor of Science, Microbiology, Arizona State University, 2000

#### Affiliations:

Society of Industrial Microbiology  
Indoor Air Quality Association, Atlanta Chapter Vice President, Inducted 2018  
Indoor Air Quality Association, Atlanta Chapter Officer, Inducted 2017  
Indoor Air Quality Association, Atlanta Chapter Board Member, 2008-present  
American Indoor Air Quality Council, Atlanta Chapter Board Member 2004-2008  
American Society for Microbiology  
American Industrial Hygiene Association Member  
Southern Loss Association  
Mycological Society of America  
Blue Goose Society

#### Courses Instructed/ Guest Lecturer:

Investigation of Indoor Air Quality in Residential and Commercial Properties  
Techniques and Strategies for Microbial Investigations  
Handling Mold Claims for Residential Properties  
Mold Legislation: Protecting the Public  
Indoor Air Quality Issues for Hotels Indoor  
Air Quality and Real-Estate  
Preventing Mold Issues: How to Maintain Your Building  
Understanding Mold and How to Respond  
Moisture Movement in Buildings

#### Honors and Awards:

Manchester Who's Who Among Executive and Professional Women in Science and Microbiology, June 2005.

\*\*Litigation CV available upon request