

## Robert W. North | Environmental Project Manager

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### Professional Summary:

Mr. North has over 30 years diverse experience conducting, designing and managing projects in the environmental field, including site investigations and remediation, Phase I and Phase II environmental due diligence investigations, solid and hazardous waste management, air quality investigations, and asbestos, lead, and mold inspections and abatements. The projects have been for industrial, commercial and residential clients. In addition to the technical work, he has been responsible for management of staff, budget tracking and new business development. For investigations and cleanups involving regulatory agencies, Mr. North has acted as the primary liaison between the responsible party and the regulatory agency. His site investigation and remedial work has been completed under CERCLIS, New Jersey's ISRA and Voluntary Cleanup Programs, Pennsylvania's Act 2, as well as state programs in New York, Ohio, North Carolina, and Florida. His due diligence work has included industrial and commercial properties across the United States as well as in Europe, Australia, and South Africa. As a Waste Management Consultant, he developed approaches for his clients to significantly reduce waste disposal costs. As an asbestos building inspector and lead paint risk assessor, he has completed hundreds of inspections of residential, educational, and commercial facilities. He has also completed indoor air quality investigations and mold assessments and prepared mold abatement plans for commercial and residential properties in New York, New Jersey, Connecticut and Pennsylvania.

Mr. North meets the definition of an Environmental Professional as defined in 312.10 of 40 CFR 312.

- Mold and Water Damage assessment
- Asbestos and Lead Paint Inspections
- Indoor Air Quality Investigations
- Environmental Site Assessment

### Licenses and Certifications:

AHERA Asbestos Inspector

Asbestos Building Inspector, Department of Labor, New York, License #15-03158

Asbestos Building Inspector, Department of Labor, Pennsylvania, License #056061

Asbestos Building Inspector, Department of Labor, Connecticut, License #00959

Mold Assessor, Department of Labor, New York, License #MA00826

ACAC Certified Indoor Environmental Consultant Certificate #1807006

### Project Experience:

National Hotel Chain Hotel, Northern New Jersey  
Mold Assessment/Remediation

Completed a mold assessment and oversaw the mold remediation of all 136 guest rooms at a hotel in northern New Jersey. The project included phased mold investigations of each floor to evaluate the extent and cause(s) of mold, design of the remediation plan for each floor, and room-by-room visual inspections and air clearance testing to verify completion of the mold removal actions. Provided recommendations on HVAC maintenance activities to reduce future mold issues.

Federal Occupational Health, Federal Building, Newark, New Jersey  
Indoor Air Quality Assessment

Designed and completed an IAQ survey at the Veterans Administration file storage facility in Newark New Jersey. The investigation included standard IAQ parameters, volatile organic compounds by direct read instrumentation, asbestos air testing, microbial air testing, and a visual inspection for mold, damaged asbestos-containing materials, or other sources of airborne contaminants.

Federal Occupational Health, Social Security Administration-MAPSCC, Philadelphia, Pennsylvania  
Indoor Air Quality Assessment

Designed and completed an IAQ survey of portions of a large office building to evaluate potential causes of employee air quality complaints. The survey included a thorough visual inspection of multiple floors of the building for evidence of mold, excessive dust or other sources of potential irritants, air quality testing for volatile organic compounds and comfort parameters, and an assessment of the building's HVAC system operation and maintenance.

Federal Occupational Health, Multiple Social Security Offices in Mid-Atlantic Region  
Asbestos Air Quality Assessments

Completed semi-annual asbestos air monitoring at multiple Social Security offices in Regions 2 and 3. Projects includes collection and analysis of asbestos air samples by transmission electron microscopy and evaluation of data in accordance with SSA criteria.

Federal Occupational Health, Multiple Social Security Offices in Mid-Atlantic Region  
Asbestos Building Surveys

Completed initial asbestos building inspections or building re-inspections at over 40 Social Security offices in Regions 2 and 3. Projects includes collection and analysis of samples of suspect building materials, assessment of building conditions, and evaluation of data in accordance with SSA criteria.

Childcare Facility, Little Ferry, New Jersey  
Indoor Air Quality

Designed and completed an indoor air quality evaluation/vapor intrusion study of a childcare facility in Little Ferry New Jersey to address concerns with possible vapor intrusion from a plume of chlorinated solvent ground water contamination from an off-site source. The survey included standard IAQ parameters, direct read monitoring for VOCs, and summa canister sampling for VOCs following NJDEP protocols and comparison of the results to NJDEP vapor intrusion guidelines.

Facility Management Office, Co-op City, Bronx, New York

Completed an IAQ survey of the facility management offices at Co-op City in response to indoor air quality complaints. The survey included monitoring and evaluation of standard IAQ parameters and recommendations for modifying the operation of the HVAC system to ensure adequate outdoor air exchange.

Johnson Controls, Blackwood, New Jersey  
Indoor Air Quality/Mold Assessment

Designed and completed an IAQ/mold assessment of a commercial office facility in Blackwood, New Jersey. The survey included standard IAQ comfort parameters, direct read monitoring for volatile organic compounds, air sampling for fungal contamination, and a thorough visual inspection of all areas of the facility and the HVAC system to assess odor complaints. Contamination was present due to multiple areas of roof leakage and due to humidity control issues. Recommendations were provided to address likely sources of the odor/air quality complaints.

Santander Bank Branch, Brooklyn, NJ  
Indoor Air Quality/Mold Assessment

Designed and completed an IAQ/mold assessment at a bank branch in Brooklyn, New York in response to employee air quality complaints following a boiler system leak. The IAQ included ASHRAE comfort parameters, direct read VOC monitoring, and airborne particulate monitoring. The mold assessment was completed in accordance with the New York State Mold Law and included a thorough visual inspection, surface sampling and air sampling for mold. Developed a mold remediation plan to address mold from multiple sources, oversaw the remediation, conducted the clearance inspection and testing, and provided recommendations for eliminating sources of water intrusion.

Nationwide Insurance - Residential Property, Bridgeton, New Jersey  
Indoor Air Quality/Smoke Damage Assessment

Designed and completed an IAQ in response to indoor air quality concerns following a furnace malfunction event. The IAQ included a thorough inspection of the HVAC system, direct read comfort parameter and VOC monitoring, summa canister testing for VOCs, formaldehyde testing, and surface sampling of HVAC duct components for smoke and chemical residues. Provided recommendations for duct cleaning and replacement following determination that plasticizer residues from melted plastic condensate pan were source of contamination.

Insurance Claims, - New York, New Jersey, and Pennsylvania  
Mold Assessments

Mr. North has completed over 100 mold assessment/cause & origin investigations at residential properties in New York, New Jersey, and Pennsylvania. The assessments have included air quality testing for mold, surface testing, evaluation of multiple sources of moisture inclusion, and development of mold remediation plans consistent with applicable state regulation.

Celgene Corporation, Summit, New Jersey  
Asbestos Survey

Managed and conducted a comprehensive asbestos survey of a nine building corporate headquarters campus of a major pharmaceutical company

Hurricane Sandy, New Jersey RREM Program  
Asbestos and Lead Inspections/Risk Assessment

Conducted several hundred asbestos and lead paint inspections of homes damaged by Hurricane Sandy. The project involved full, AHERA-compliant asbestos building inspections and HUD-compliant lead paint inspections/risk assessments of homes applying for grant funding through New Jersey's Reconstruction, Rehabilitation, Elevation, and Mitigation Program. Homes were located in Atlantic, Cape May, Ocean, Burlington, Middlesex, Monmouth, Union, and Bergen Counties.

State Theater of New Jersey, New Brunswick New Jersey  
Solid Waste Minimization

Analyzed the waste generation and handling processes for the State Theater of New Jersey, developed additional recycling practices and negotiated contract changes with its waste disposal company resulting 35% savings in the Theater's waste disposal costs.

Quality Distribution Inc., Bridgeport New Jersey  
Superfund Remedial Investigation/Design

Positioned a New Jersey Superfund site for several million dollars in long-term savings by successful management of the ground water investigation and modeling evaluation resulting in a redesign and simplification of ground water pump-and-treat system and proposed pumping rates were reduced by over 50%.

Major National Law Firm  
Phase II Site Investigations

Managed the Phase II soil and ground water investigations of over 25 convenience store/gasoline stations located throughout the southern United States within a 60 day deadline. His work involved the day-to day coordination of multiple field crews, report development and review, and interaction with client.

Major International Manufacturing Company  
Transactional Due Diligence

Provided oversight of Phase I ESAs and Phase II Site investigations of a major international manufacturing company with operations on three continents. Mr. North managed the design and coordination of investigations at North American facilities and the report preparation and development of potential liability estimates.

### Professional Experience:

McCabe Environmental Services, Sr. Project Manager, 2013 - 2016

Evergreen Waste Solutions, President, 2007 – 2012

ENVIRON International Corp., Sr. Manager, 1987 - 2006

### Specialized Education:

Certified Indoor Environmental Consultant, Indoorsciences, 2018

New York State Mold Assessor Refresher Class, IAQSchool.Online, 2018

AHERA Asbestos Building Inspector Refresher Classes, NAETI, 2014-2018

EPA Lead Paint Inspector Risk Assessor Refresher Class, NAETI, 2017

Mold, Indoor Air Quality, and Industrial Hygiene Sampling Workshop, EMSL, 2017

Fire, Smoke, Dust Characterization and Combustible Dust Workshop, EMSL, 2017

New York State Mold Assessor, NAETI, 2016

AHERA Asbestos Building Inspector, NAETI, 2013

Asbestos Safety Technician, Rutgers School of Public Health, 2013

Lead Paint Inspector/Risk Assessor, NAETI, 2013

### Education:

Master of Science, Geology, University of New Mexico, Albuquerque, NM 1986

**Publications and Presentations:**

North, Robert. Innovative Remedial Technologies and Brownfields Redevelopment. Invited Presentation. Southern New Jersey Development Council. April, 1999

Wright, Robing and North, Robert W. Sediment textural characteristics of fluvial sandstones in the Mesaverda Strata at the Multi Well Experiment (MWX) site, Northwestern Colorado. Sandia National Laboratories Contract Report, 1985

\*\*Litigation CV available upon request.