



Industrial Hygiene Solutions to Support Cleaning and Disinfecting Practices

Safe Site Management and Consulting Services

North Carolina Manufacturers Alliance

April 16, 2020

MONITOR

[PROTECT]

CONTROL

<https://www.trccompanies.com/services/covid-19-resources/>

Safely Back to Work



TRC's goal is to support businesses recovery and return to normal operations without compromising employees and clients health and safety

The pandemic raised the standards for work environment cleaning. The biggest challenge when battling a pathogen is that the enemy is invisible. The old way of cleaning may not be enough to keep locations safe for employees and clients.

To gain the assurance of your employees and stakeholders, enhanced documented actions should be taken.

Old Standard: Disinfect and visually confirm “Clean”

New Standard: Disinfect, test, confirm and document “Clean”

Business adapting to the situation...



However, TRC has been providing these services for years ...

Over 200 professional staff in IH and Building Sciences

We are providing Covid-19 support to Transit Authorities, State Emergency Management Departments, Commercial Properties, Pharmaceutical, Oil & Gas, Manufacturing, etc.

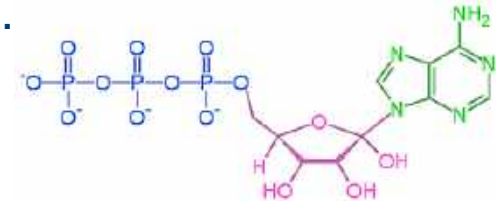
An market example....

ATP Testing Cleaning and Disinfecting (C&D) Verification



Even though an environmental surface may look clean, microorganisms, biofilm, and other biological residues that are not visible to the human eye may still be present.

- **Adenosine triphosphate (ATP)** is a sensitive molecular indicator of the presence of such invisible biological residues and it is an important differentiator during flu season and other viral outbreaks.



- Because of its universal presence in living cells, measuring ATP has become an accurate indicator of other biological residues on a given surface.
- Collecting ATP data is an easy and effective method to confirm the absence of biological residues.
- It is important to understand that ATP testing does not confirm the presence or non-presence of Covid-19. It is an indicator that potential biological media and micro-organisms are not present.

Understanding Protocols

General Sequence Recommendations

- TRC works with client to prepare a site-specific C&D Plan per Centers for Disease Control (CDC)
 - Specifies cleaners, disinfectants
 - Divides facility into functional areas
 - Outlines C&D requirements and ATP Sampling plan for High and Low Touch Surfaces
- Client hires a C&D Contractor.
- Acting as the Owner's Representative, oversees the work of the C&D Contractor
 - Verifies that C&D Contractor is using specified cleaners and disinfectants
 - Verifies that C&D Contractor is using specified cleaners and disinfectants in accordance with label directions and the C&D Plan (dilution, contact time)
 - Performs ATP sampling in accordance with the plan (pre-cleaning, post-cleaning, post disinfection)
 - Documents C&D Contractor operations, ATP Sampling results through a mobile portal for real time results, reporting and documentation



COVID-19 Response and Mitigation Support



Program Management

Cleaning & Decontamination

- ➔ Review or Development of Cleaning Protocols
- ➔ Referral and Recommendation of On-Site Cleaning Firms
- ➔ Supply Chain Consulting
- ➔ Training of On-Site Cleaning Contractors Cleaning Firms
- ➔ Cleaning Verification & Scientific Documentation w/ ATP testing
- ➔ Mobile Data Collection, Management, & Reporting of Cleaning Services/Verification

Back-to-Work

- ➔ Review or Development of Workspace Protocols
- ➔ COVID-related Work Permitting for Projects and/or Other On-Site Workplaces
- ➔ Train Employees on New/Modified Procedures, including PPE Use and Safe Social Distancing
- ➔ Emergency Preparedness
- ➔ Pandemic-Related Risk Management Consulting

Safe Site Management

- ➔ Tech-enabled COVID site / project protocol management (automated body temp, separation tracking)
- ➔ Worker / contractor testing & screening
- ➔ Work From Home Efficiencies, Digital Applications
- ➔ Staff Augmentation
- ➔ Indoor ambient air monitoring for biohazards
- ➔ Continuing HVAC disinfection systems
- ➔ Project Controls Consulting, Arbitration/Litigation Services

Thank You

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Industrial Hygiene Services



Response and Certification

- Emergency Response Inspection and Sampling
- Adenosine Triphosphate (ATP) Testing for Biological Residue on Surfaces
- Development of Cleaning/Disinfecting and Testing Protocols
- OSHA and CDC Compliance Monitoring and Audits
- Building Inspections
- Emergency Response Inspection and Sampling

Design and Prevention

- Recommendation and Guidance on Personal Protective Equipment (PPE)
- Site Cleaning and Verification Services
- Oversight of Cleaning Contractors
- Awareness Training
- Microbial Assessment and Hazard Identification
- Microbial Remediation Design and Oversight

Programmatic approach **decreases response time** and gives **quick access to data** across multiple locations

TRC OneView Digital Data Management system, which is our proprietary data collection, management and reporting platform, reduces the time needed to document data, analyze results and track progress of your efforts to stop the spread of the novel coronavirus

- Reduce paperwork and duplication of efforts to deliver reports quickly and accurately so corrective action can be taken immediately when necessary
- Capture photos and other data from different sources and digital tools
- Data is GIS tagged
- Real-time access to project information
- Paperless reporting of all cleaning, testing and verification sampling

The TRC Advantage



EXPERIENCE: One of the largest building sciences providers nationally

- 200 experienced professionals in Industrial Hygiene and Building Sciences fields
- Thousands of hazardous material surveys and assessments conducted every year

DEDICATION: Keeping your projects compliant, on schedule, and on budget

- Full lifecycle support, from the design of the initial assessment to the oversight and management of necessary remediation or decontamination
- Ensure compliance with applicable regulations while staying within budget and on schedule

EXPERTISE: We know the business

- We anticipate regulatory requirements to minimize potential schedule delays and address unexpected conditions as they arise
- We have a long-standing relationships with local and federal regulatory agencies
- Integrated approach enabled by our broad portfolio of services

200
experienced professionals in
the Industrial Hygiene and
Building Sciences fields

Our project managers
have over

25
years of experience

Over
30 years
providing industrial hygiene
services nationally