



**ALLIED**

**ENVIRONMENTAL SERVICES, INC.**



# ALLIED

## ENVIRONMENTAL SERVICES, INC.

Founded in 1987, **Allied** has become a recognized and trusted provider of comprehensive environmental services. With a diverse staff of experienced geologists, hygienists and technicians, Allied offers a broad range of services including asbestos management, due diligence assessments, soil and groundwater sampling, underground storage tank removal/closure, lead-based paint assessment and abatement, mold assessment, industrial hygiene and indoor air quality evaluation, industrial cleaning, hazardous materials management and transport, and emergency spill response.

By staying abreast of the constant changes in environmental and safety regulations, and improvements in technology and methodology, Allied is able to provide efficient, practical, and innovative solutions for the diverse needs of our clients.



## Phase I Environmental Site Assessment (Phase I ESA)

Commonly referred to as “Due Diligence Assessment”, a Phase I ESA is performed to identify environmental concerns attributed to current and past property uses. Phase I ESAs conducted by Allied scientists conform to the ASTM E1527-05 and ASTM E2247-08 standards, as well as the EPA All Appropriate Inquiry (AAI) rule. Allied can also meet Brownfield and client-specific Phase I ESA requirements.

An ASTM/AAI-compliant Phase I ESA satisfies the statutory requirements of the CERCLA “innocent land owner” defense and is a valuable tool for determining business risk related to environmental issues on a property.

Allied scientists take pride in an exhaustive attention to detail that often exceeds the industry standard. This provides our clients with confidence when making property acquisition/transaction decisions.



## Phase II ESA

Typically a continuation of the Phase I ESA, a Phase II ESA is an invasive investigation involving the sampling and analysis of soil, surface water and/or groundwater to determine the presence and delineate the extent of contamination.

- Subsurface soil sampling
- Monitoring well installation and groundwater sampling
- Fate and transport modeling
- Ground-penetrating radar surveys



## Contaminant Remediation

Allied can develop and implement a practical and effective remediation plan to eliminate or reduce contaminants to safe and acceptable concentrations.

- Mechanical removal and off-site disposal
- In-situ treatment systems
- Site restoration

## Underground Storage Tank (UST) Removal/Closure

Due to the propensity for subsurface leakage, USTs are considered a significant risk to property owners and prospective buyers. Allied’s experience and expertise can help reduce cost while ensuring a quick and effective resolution.

- Excavation, removal and disposal of UST systems
- Regulatory closure assessments, environmental sampling, permitting and reporting
- Remedial action plans and site restoration





## Hazardous Materials/Waste Management

Allied's hazardous waste management services provide an economical, efficient, and flexible means of managing hazardous and non-hazardous wastes/materials. Allied specialists are expert in identifying and categorizing unused, obsolete, or unknown chemicals. To reduce disposal cost and client liability, Allied is dedicated to waste minimization, consolidation, neutralization and recycling whenever possible.

Waste management services include:

- Waste characterization/classification/sampling
- Transport, recycling and/or disposal of:
  - Laboratory chemicals
  - Spent photographic and x-ray developing solutions
  - RCRA listed wastes
  - PCB-containing fluids and devices
  - Radioactives
  - Shock-sensitive materials
  - Pressurized cylinders
- Management of universal wastes including:
  - Mercury, light bulbs and batteries
  - Electronic waste (computers, monitors, printers, etc.)
- Neutralization pit evacuation and restoration



## Industrial Cleaning and Maintenance

From compact job-shop machining facilities to global manufacturers and petroleum refineries, Allied provides our industrial clients with cleaning services, hazardous materials and waste transport and disposal, and vessel/equipment maintenance.

- Storage tank cleaning
- Sewer jetting
- Hydro and cryogenic blasting
- Dust removal
- Heat exchanger cleaning
- Hydro excavation
- Remote video camera pipe/vessel inspection
- Filter media disposal

Allied continually upgrades our equipment and methods to meet the needs of industry:

- Vacuum trucks (King Vac, Guzzler Vac, MiniVac, stainless steel tanks)
- Semi-tanker trailers (6,000 - 9,000 gallon capacities)
- Sewer jettors
- 10k psi, 15k psi, 20k psi and 40k psi water blasting units
- Hot & cold power washers (3,000 psi)
- Cryogenic blasting unit - dry-ice (CO<sub>2</sub>)
- Roll-off boxes/trailers



## Emergency Spill Response

Allied's experienced and OSHA HAZWOPER-trained spill response team is ready 24 hours per day, 365 days per year to respond immediately to spills/releases of hazardous materials and petroleum.

— 24-hour emergency hotline (1-800-992-5781) —

- Contain and control the spill
- Recover and transport product for proper disposal
- Conduct post-spill site assessment and restoration

Allied response teams respond quickly with appropriate measures to minimize property damage and protect occupants.

Allied technicians are certified for confined space entry, rescue and IDLH Stand-by Rescue services regardless of the setting.

### Mercury Clean-up

Allied maintains a fully-equipped mobile mercury spill response center, which allows for rapid response to releases in schools, hospitals, industrial facilities or residential properties. Allied response technicians are trained in:

- Reclamation of elemental mercury utilizing mercury vacuums
- Decontamination of impacted materials via chemical treatment
- Vapor analysis via Lumex RA 915 vapor analyzer



## Asbestos & Lead-based Paint Management

### Asbestos

Allied was founded in 1987 as an asbestos consulting and abatement firm. We have over 20 years experience completing asbestos surveys, management plans, abatement projects, and third-party project oversight and specification writing.

- Surveys and sampling of industrial, commercial and residential structures
- NESHAP inspections for demolition/renovation
- Certified abatement crews (encapsulate, repair, remove)
- Asbestos Operations & Management plans
- OSFC consulting, specification preparation and third-party abatement oversight
- Laboratory analysis: Polarized Light Microscopy (PLM) for bulk samples, Phase Contrast Microscopy (PCM) for air samples.

### Lead-based Paint

Allied is staffed with HUD-certified Lead Risk Assessors and Lead Workers trained and experienced in assessment and abatement methodology, including the collection of bulk (paint chip) samples, sampling via x-ray fluorescence (XRF), monitoring airborne lead concentrations, and removal/encapsulation of lead-based paint.

- HUD lead risk assessments and sampling
- Abatement (removal or encapsulation)
- Lead operations and management plans

### Industrial Hygiene

Whether issues are related to general OSHA compliance, or specialized conditions associated with dosimetry monitoring and airborne contaminants, Allied can assess workplace conditions and provide practical solutions.

- OSHA compliance
- Air monitoring
- Dosimetry (noise) monitoring

### Indoor Air Quality

- Air quality, comfort assessments
- Mold/bioaerosol assessment, sampling and remediation
  - Airborne and bulk sampling
  - Post remediation clearance sampling
- Lab services – fungal (mold) identification







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