

**ART**  
**Asset Recovery**  
**Technologies, Inc.**  
**(800) 805-0644**

**ENVIRONMENTAL ASSESSMENT SERVICES**

*Need to cost-effectively evaluate your facility for environmental impact on electronic equipment reliability? Is low product yield a problem? Is renovation suspected to be causing a contamination problem? Are cleaning and maintenance needs higher than expected? Do you need to ensure service and protect equipment and plant reliability? ART environmental assessments are the answer!*

**VALUE**

There are many environmental factors that can have a negative impact on equipment, people, operations and maintenance. Dust, gases, temperature, humidity and airflow all may influence electronic equipment and machinery. Inappropriate or inadequate control of the indoor environment can lead to short-term equipment damage, long-term reliability problems, personnel complaints, and in the end a significant effect on the bottom line. Environmental issues may arise from construction events, during renovation, from new equipment installation, during normal manufacturing/operations or even simply from the outdoor (make-up) air itself.

**ENVIRONMENTAL ASSESSMENT SERVICES**



Environmental assessments are performed on-site at the client's location by ART personnel who are experienced in environmental and contamination control. To measure current environmental conditions airborne particle concentrations (particle counts - fine and coarse mode particles), temperature and relative humidity and qualitative pressure differential measurements are made at various locations in the facility, with a focus on rooms/spaces containing electronic equipment. To provide a baseline of contamination conditions and to evaluate the past history of contaminant deposition, surface particulate contaminant samples will be taken for laboratory analysis of elemental composition via spectroscopic techniques. The air distribution systems are evaluated, to determine and report on the potential pathways of contaminant migration and overall system cleanliness. Air distribution system and general maintenance practices are also evaluated.

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Detailed visual observations on contaminant locations, qualitative degree of deposition and any other relevant environmental factors are recorded and reported on. Photography, including close-up views of deposited contaminants is used to document the findings. The minimum specific areas to be sampled are usually as follows:

- Outdoor air particle counts, temperature and relative humidity.
- Individual equipment room particle counts, temperature, and relative humidity.
- HVAC system(s) particle counts, temperature, and relative humidity, upstream & downstream of filters.
- Settled dust and quantitative anionic contaminants at several sampling locations.
- Detailed visual assessment of contamination control mechanisms and contaminant locations



### **WHAT IS THE PURPOSE OF AN ENVIRONMENTAL ASSESSMENT?**

The results of the environmental assessment sampling are compared to levels known to cause reliability problems with electronic equipment, as well as to expect normal accumulation levels. Recommendations on cost-effective improvements to contamination control, such as air filtration, ventilation, and source containment, are provided in the environmental assessment report. The results of environmental assessments are also often used to develop more efficient cleaning and preventative maintenance schedules, and to eliminate ineffective or inefficient control mechanisms – often at a significant operational costs savings.

### **EXPERIENCE – THE KEY TO OUR ENVIRONMENTAL ASSESSMENTS**

The purpose of an environmental assessment is to evaluate airborne and surface contamination levels that are known to have contributed to, or added to the impact of past electronic equipment failures, employee indoor air quality complaints, and increased maintenance/energy consumption needs. Therefore, the experience level of the assessor in the industry or facility type being evaluated will play a critical role in the value received from the environmental assessment project. ART personnel have over 100 person-years of experience in disaster recovery, have consulted on over 1000 loss and contamination events, and have been involved in damage assessment of some of the largest natural and man-made disasters in North America. Our involvement in national environmental, indoor air quality and equipment reliability standards development allow insight into contamination issues that may be unavailable from any other source. We have contributed environmental measurement and control expertise to organizations such as ASHRAE, NACE, AAAR, ASTM, NAFA, PLRB



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and NADCA.

Unlike Indoor Air Quality testing or EH&S sampling, ART's environmental assessments are flexible in the final evaluation of the prioritization, recommendations and cost-effectiveness of environmental control opportunities that are identified.

### **INTERESTED?**

If you have any questions or need additional information, please contact:

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