



Quantum Environmental & Engineering Services, LLC

EXAMPLE PROJECT

Private Banking Client

Quantum Environmental and Engineering Services, LLC (QE²) currently provides a range of environmental services for a nationwide private banking client doing business in Tennessee. Those services include emergency response / hazardous materials consulting, indoor air quality (IAQ) monitoring, mold abatement, developing site-specific health and Safety Plans (HASPs) and health and safety compliance monitoring. Highlights include:

Elemental Mercury Emergency Response, Knoxville, Tennessee; Elemental mercury was maliciously placed in an automatic teller machine (ATM) located in a bank branch office in Knoxville. The event was first noticed when the ATM malfunctioned. Bank and ATM service personnel quickly suspected the presence of the mercury and notified the first responder unit of the local fire department. Bank officials also requested assistance from QE². After the building was evacuated, QE² and our subcontractors isolated and decontaminated the visibly contaminated portion of the ATM and the bank. An air monitoring event was conducted to ensure bank employees and customers were not exposed to airborne mercury.



Analytical tests of the currency contained within the ATM showed elevated levels of mercury. Because the currency could not be decontaminated, a decision was made by United States Treasury Department personnel to destroy the currency. To avoid the high cost of transporting the money under armed guard to a federal disposal facility, the decision was made to shred the money on site. QE² personnel coordinated the destruction of the contaminated currency in accordance with Treasury Department requirements so that it could be transported for disposal without armed security. Project cost: \$120,000.



Site-Specific Health and Safety Plans and Compliance Monitoring:

QE² was tasked to develop site specific health and safety plans (HASP) and to conduct compliance monitoring at several banking facilities located in east Tennessee. The HASPs were drafted to help ensure compliance with federal and state regulations, including The Occupational Safety and Health Act (OSHA), the Environmental Protection Agency (EPA), the Department of Transportation (DOT). QE² visited each of the facilities to collect data, which was incorporated into the client's corporate health and safety plan to obtain a site-specific plan. QE² was also tasked to conduct compliance monitoring to ensure each facility remains in compliance with their specific plan, and with state and federal regulations. Project cost: \$16,000



Indoor Air Quality Assessments: QE² regularly conducts indoor air quality (IAQ) in response to evidence of air quality issues. Work includes inspections, IAQ assessments and remediation activities at branch location throughout East Tennessee. Project cost: \$100,000/year.