

Environmental Services

Introduction

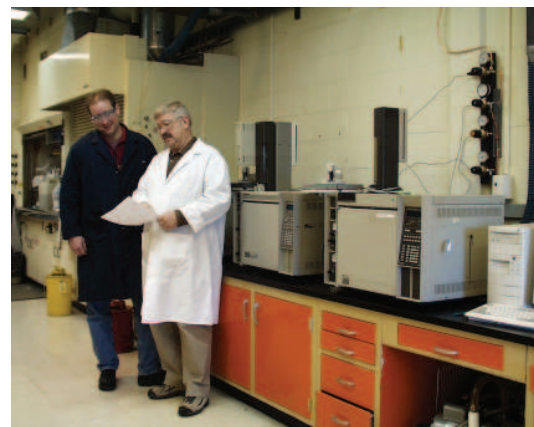
IsleChem's environmental services encompass a broad range of sampling and analytical testing of waste water, wastes and soils, as well as asbestos and lead-containing building materials. We have focused our environmental and analytical services around client demands. Our technical strength is derived from the experience and training of our laboratory personnel. Our professional staff has surveyed over 50 million square feet of buildings for hazardous materials. We further provide routine sampling and testing on more than 750 projects yearly. IsleChem personnel undergo a variety of safety, health and environmental training for asbestos, lead and radiation sampling, handling and analysis in order to comply with all government regulations. A diversity of personnel and technical expertise allows us to provide a wide range of services. A brief listing of some of the services we routinely provide to our clients includes:

- Waste Characterization
- Soil Contaminant Investigation
- Ambient Air Monitoring
- Hazardous Building Material Survey (Asbestos, Lead, PCBs and Mold)
- Waste Water Discharge Permit Monitoring (SPDES, NPDES, Sewer Permits)



Sampling is followed by analytical testing at our state-of-the-art laboratory. Below is a list of some of our most common environmental analytes. We continue to broaden our scope of services to meet the changing needs of our clients.

- Heavy & Toxic Metals
- Volatile Compounds
- Semi-Volatile Compounds
- Polychlorinated Biphenyls (PCBs)
- Pesticides and Herbicides
- Petroleum Hydrocarbons
- Waste Characterization
- Anions, Cations
- Asbestos
- Lead



In addition to routine test methods, our laboratory specializes in the development and implementation of very robust customer-specific test procedures, made possible by IsleChem's broad array of analytical instrumentation and expertise. Please do not hesitate to inquire about our methods development service.

Lab Certification

The IsleChem environmental laboratory accreditation includes several categories - solid & hazardous wastes, air, and non-potable water. Our list of certified test procedures includes: asbestos in air; hundreds of organic compounds, including: PAHs, PCBs, pesticides, alcohols, aromatics and halogenated compounds in waste, soil and waste water; heavy and toxic metals, including lead and mercury in air, soil, waste and water. We also perform a wide variety of wet chemistry test procedures which include ammonia, oil and grease, pH, biochemical oxygen demand, cyanides, nitrates and other nutrients and contaminants found in waters. Please review our most current laboratory certification on our website.

Equipment

IsleChem's analytical capabilities are extensive and include equipment for almost any organic or inorganic analysis, x-ray crystallography, as well as light and electron microscopy. Our equipment list includes all of the most common test equipment and many hard-to-find commercial capabilities. Below is a list of the types of analysis available to our customers.

Atomic-absorption spectroscopy (AAS)

Water Titration

Differential Scanning Calorimetry (DSC)

Fourier Transformed Infra-Red Spectroscopy (FTIR)

Gas Chromatography/Mass spectroscopy (GC/MS)

High-Performance Liquid Chromatography (HPLC)

Ion Chromatography (IC)

Metallography

Nuclear Magnetic Resonance (NMR)

Phase Contrast Microscopy (PCM)

Polarized Light Microscopy (PLM)

Rockwell and Micro Hardness

Thermal Gravimetric Analysis (TGA)

Total Organic Carbon Analysis (TOC)

X-ray Fluorescence (XRF)

X-ray Diffraction (XRD)

High-Performance Liquid Chromatography/Mass spectroscopy (LC/MS)

Scanning Electron Microscope with Energy Dispersive X-ray Spectrometer (SEM/EDS)

Inductively Coupled Argon Plasma - Atomic Emission Spectroscopy (ICP-AES)

Transmission Electron Microscope with Energy Dispersive X-ray Spectrometer (TEM/EDS)

Lab Quality Program

IsleChem LLC operates under an ISO Guide 170025 compliant quality control program that dictates a variety of checks and balances be placed within the laboratory system. The primary accrediting authority is The New York State Department of Health Environmental Laboratory Approval Program (ELAP). This program includes requirements for a strict quality control plan that includes: a quality assurance manual, standard operating procedures, work instructions and stringent reporting requirements for all of our test parameters. The plan is internally and externally audited and has been shown to meet all industry standards. Client review of our quality assurance program can be arranged by appointment.



In addition to Environmental Services, IsleChem offers:

Contract R&D

Contract Manufacturing

Process Scale Up

Technical Service

Materials Testing

Analytical Services

Analysis of Hazardous Building Materials

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