

06-FQS-I-13

ANNEX A: Forensic Requirements for Accreditation, NEIC

The following list shows the techniques associated with environmental data collection conducted by the National Enforcement Investigations Center in Denver, Colorado. This does not, however, preclude other techniques being used by this environmental forensic laboratory, so long as the requirements for method validation and documentation are met. Techniques which are employed include but are not limited to:

Field Sampling	Field Measurements/Monitoring	Laboratory Measurements
Wastewater Sampling	Leak Detection and Repair (LDAR) Monitoring	Atomic Absorption/ Emission/Fluorescence Spectroscopy
Water Sampling	Site Safety Monitoring and Screening	IR Spectroscopy
Asbestos Sampling	General Physical Field Measurements	Inductively Coupled Plasma/Optical Emission Spectroscopy
Surface and Soil Sampling		Gas Chromatography
Container and Tank Sampling		Liquid Chromatography
Air Sampling		Ion Chromatography
		Organic Mass Spectrometry
		Inorganic Mass Spectrometry
		Light and Polarized Light Microscopy
		Scanning Electron Microscopy
		X-ray Diffraction/Fluorescence
		Physical Characteristics
		Hazardous Waste Characteristics
		Carbon/Organic Halogens/Sulfur Testing
		Air Canister/Absorption Sampling and Analyses
		Nuclear Magnetic Resonance Testing
		Potentiometry/Ion Specific Electrodes and Conductivity
		Colorimetric/Titrimetric/Gravimetric/ Classical Analytical Chemistry Testing
		Sample Preparation

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Further amplification of NEIC accreditation requirements is provided by the current version of the NEIC Operational Standard for Accreditation.

1.1 This accreditation document describes the requirements of a quality system applicable to environmental data collection, while adhering to forensic requirements in specific areas. For the purposes of this requirement document, environmental data collection involves:

- Field Sampling
- Field Measurements/Monitoring
- Laboratory Measurements

and the associated scientific techniques utilized in the characterization of an environmental parameter to support enforcement of environmental regulation.

1.2 The techniques adopted in the analysis and examination materials involved in the investigation of environmental contaminants in forensic investigations cover a broad range of procedures. The current list of techniques associated with this scope are shown in Annex A of this document and are recorded on the accreditation certificates issued by FQS-I.

1.3 The forensic areas in this document include: ethics, evidence management, facility security, witness testimony, and written court statements/reports.