

PORTABLE XRF FOR COST-EFFECTIVE PROJECT MANAGEMENT OF ENVIRONMENTAL SITE INVESTIGATIONS

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The goals of environmental site investigations include the determination of safe and appropriate land use, characterization for compliance, approval of land use or recommendation of remediation plans, and follow-up monitoring of any remediation process. Portable XRF is used as a cost-effective project management tool for these environmental site investigations. The use of handheld XRF for hazardous waste and public safety screening, land reuse assessment, and sustainable development monitoring will be presented. Additionally, highlights of EPA Method 6200 for field screening methods for metals in soils will be discussed. Method 6200 affords a standard field XRF method, improves data quality and offers cost-effective and analytical benefits of more and better field testing. It provides basic portable XRF quality assurance methods, including calibration verification, determination of instrument precision, accuracy and LOD's.