


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>UKAS TESTING 1269</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>HPA Centre for Radiation Chemicals and Environmental Hazards (CRCE)</p> <p>Issue No: 017 Issue date: 08 July 2011</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL, BIOLOGICAL and FOODSTUFFS Airborne dusts, Sand, Soils/Sediment, Water (Natural, surface, ground) Milk	<u>Radiological Analysis</u> Preparation of samples Americium - Am ²⁴¹ Plutonium - Pu ²³⁸ and Pu ²³⁹⁺²⁴⁰ Strontium - Sr ⁹⁰	Documented In-House Methods: Preparation using SOP's PR3, PR4, PR5, PR8, PR9 and PR10 by dissolution/digestion Analysis using: SOP's Am1, Am2 and Pu1 by alpha spectrometry (SOP OP 1) Analysis using SOP Sr1 by gas flow proportional counting (SOP OP2)
Environmental, Biological and Foodstuffs	Radionuclides emitting gamma rays 59-1836 keV	Analysis using Section 3-4 of IoR Technical Manual by High resolution gamma ray spectrometry
Milk	Caesium - Cs ¹³⁷	Preparation using SOP PR9 by freeze drying SOP OP7 Analysis using: Section 4 of IoR Technical Manual by high resolution gamma ray spectrometry



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<p>ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING</p> <p>Dust, Soil, Vegetation, Crops, Foodstuffs, Animal Tissue Faeces and Urine</p>	<p><u>Radiological Analysis</u></p> <p>Sample preparation</p> <p>Alpha emitting: Americium - Am²⁴¹ Thorium - Th²³⁰, Th²³² Plutonium - Pu²³⁸ and Pu²³⁹⁺²⁴⁰ Uranium - U²³⁴, U²³⁵, U²³⁸</p> <p>Beta emitting: Strontium - Sr⁹⁰</p> <p>Polonium - Po²¹⁰ Lead - Pb²¹⁰</p>	<p>Documented In-House Methods:</p> <p>Preparation using SOP's PR1, PR2, PR3, PR4, PR5, PR6, PR7, PR8, PR11 By dissolution/digestion</p> <p>Analysis using: SOP's Am1, Am2, Pu1, UT1 and UT2 By alpha spectrometry (SOP OP1)</p> <p>Analysis using: SOP Sr1 by gas flow proportional counting (SOP OP2)</p> <p>Preparation using SOP PR7 Analysis using SOP's Po1 and Pb1 By alpha spectrometry (SOP OP1)</p>
<p>Soil/Sediment, Vegetation, Foodstuffs</p>	<p>Carbon - C¹⁴ Total Tritium - H³</p>	<p>Preparation using SOP HC1 by combustion furnace (pyrolyser)</p> <p>Analysis using SOP OP6 by liquid scintillation</p>
<p>Decommissioning materials (brick, concrete, plaster, wood, floor covering and roofing)</p>		
<p>Waters (Natural, surface, ground)</p>		
<p>Water (Natural, surface, ground) Urine</p>	<p>Total Tritium and Aqueous Tritium - H³</p>	<p>Preparation using SOP HC1 by distillation</p> <p>Analysis using SOP OP6 by liquid scintillation</p>



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ENVIRONMENTAL, FOODSTUFFS Sand, Soil/Sediment, Vegetation, Foodstuffs	<u>Radiological Analysis</u> Technetium - Tc ⁹⁹	Documented In-House Methods: Preparation using SOP Tc1 by dissolution and chemical separation Recovery using SOP Tc1 by gamma spectrometry. Analysis using; SOP OP2 by gas flow proportional counting
	END	