


# Schedule of Accreditation

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>1269</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>Public Health England, an Executive Agency of the Department of Health (Centre for Radiation Chemicals and Environmental Hazards (CRCE))</b></p> <p>Issue No:025    Issue date: 30 July 2021</p>	
	<p>Environmental Measurement Group Chilton Didcot Oxfordshire OX11 0RQ</p>	<p>Contact: Mr D Hammond Tel: +44 (0)1235 825253 Fax: +44 (0)1235 833891 E-Mail: Derek.Hammond@phe.gov.uk Website: www.phe.gov.uk</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

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



1269  
Accredited to  
ISO/IEC 17025:2017

## Schedule of Accreditation

issued by

### United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Public Health England, an Executive Agency of the

Department of Health

(Centre for Radiation Chemicals and Environmental Hazards (CRCE))

Issue No: 025 Issue date: 30 July 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING  Dust, Soil, Vegetation, Crops, Foodstuffs, Animal Tissue Faeces and Urine	<u>Radiological Analysis</u>  Sample preparation  Alpha emitting: Americium - Am <sup>241</sup>  Plutonium - Pu <sup>238</sup> and Pu <sup>239+240</sup> Uranium - U <sup>234</sup> , U <sup>235</sup> , U <sup>238</sup>  Beta emitting: Strontium - Sr <sup>90</sup>  Polonium - Po <sup>210</sup> Lead - Pb <sup>210</sup>	Documented In-House Methods:  Preparation using SOP's PR1, PR2, PR3, PR4, PR5, PR6, PR7, PR8, PR11 By dissolution/digestion  Analysis using: SOP's Am2, Pu1 and UT2 By alpha spectrometry SOP OP1  Analysis using SOP Sr1  by gas flow proportional counting SOP OP2  Preparation using SOP PR7 Analysis using SOP's Po1 and Pb1 By alpha spectrometry SOP OP1
Soil/Sediment, Vegetation, Foodstuffs  Decommissioning materials (brick, concrete, plaster, wood, floor covering and roofing)  Waters (Natural, surface, ground)	Carbon - C <sup>14</sup> Total Tritium - H <sup>3</sup>	Preparation using SOP HC 1 by combustion furnace (pyrolyser)  Analysis using SOP OP6 by liquid scintillation
Water (Natural, surface, ground) Urine	Total Tritium and Aqueous Tritium - H <sup>3</sup>	Preparation using SOP HC1 by distillation  Analysis using SOP OP6 by liquid scintillation
Urine	Tritium - H <sup>3</sup>	Preparation and Analysis using HD1 and SOP OP13 by direct liquid scintillation counting



1269  
Accredited to  
ISO/IEC 17025:2017

## Schedule of Accreditation

issued by

### United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Public Health England, an Executive Agency of the**

**Department of Health**

**(Centre for Radiation Chemicals and Environmental Hazards (CRCE))**

Issue No: 025 Issue date: 30 July 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL, BIOLOGICAL FOODSTUFFS and DECOMMISSIONING (cont'd)  Waters (non regulatory drinking water, ground water, surface water and land leachates) and air filters Rapid method.	<u>Radiological Analysis</u> (cont'd)  Total alpha activity relative to: Polonium -209  Total beta activity relative to: Strontium-90	Documented In-House Methods:  Documented in-house method GAB1 by liquid scintillation counting. Typical limits of detection: waters, total alpha 0.2 Bq/L; total beta 0.5 Bq/L; airfilters, total alpha 0.5 Bq/sample, total beta 1 Bq/sample
END		