Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

2224

Accredited to ISO/IEC 17025:2017

Nuclear Restoration Services Ltd

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Chemistry Support Services
Dounreay
Thurso
Caithness
KW14 7TZ

Contact: Aaron Maclean
Tel: +44 (0)1847 802432
E-Mail: aaron.maclean@dounreay.nrservices.uk
Website: https://www.gov.uk/government/organisations/nuclear-restoration-services

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Chemistry Support Services Dounreay Thurso Caithness KW14 7TZ	**Local contact** Jeremy Andrew Tel: +44 (0)1847 802992 E-Mail: jeremy.andrew@dounreay.nrservices.uk Website: https://www.gov.uk/government/organisations/nuclear-restoration-services	Radiochemistry Testing Health and Hygiene Head Office Asbestos – All Support Functions	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Client Premises	Health and Hygiene	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Health and Hygiene	Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021 and methods for the determination of Hazardous substances in the series MDHS	
ASBESTOS FIBRES IN AIR	Sampling of air for fibre counting	Documented In-House Method CSS/CM/148 based on HSG 248	B
	Fibre counting	Documented In-House Method CSS/CM/148, Membrane Filter Method using Phase Contrast Microscopy (PCM) based on HSG 248	A, B
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Sampling of bulk materials for subsequent identification of asbestos	Documented In-House Method CSS/CM/149 and CSS/QP/24 based on HSG 248	B
	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method CSS/CM/126 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ENVIRONMENTAL SAMPLES	Radiochemical Analysis	Documented In-House Procedure Nos	A
Solid and liquid samples including grass	Gamma species (59 – 1836 keV)	Gamma species CSS/CM/117, CSS/CM/124, CSS/CM/125 and CSS/OI/585 by gamma spectrometry	A
	Plutonium 239/240 Plutonium 238 Americium 241	CSS/CM/115, CSS/CM/117, CSS/CM/124, CSS/CM/125 and CSS/OI/583 by alpha spectrometry	A
Non-routine liquid samples in predefined geometries	Gamma species (59 – 1836 keV)	CSS/CM/131 and CSS/OI/585 by gamma spectrometry	A
Solid and liquid samples	Beta species (Strontium 90)	CSS/CM/117, CSS/CM/124, CSS/CM/125, CSS/CM/18 and CSS/OI/617 by TriCarb liquid scintillation counter	A
HUMAN URINE	Radiochemical Analysis	Documented In-House Procedure Nos	A
	Tritium	CSS/CM/116 and CSS/OI/617 by liquid scintillation counting	A
	Plutonium 239/240 Plutonium 238 Americium 241	CSS/CM/135 and CSS/OI/583 by ion exchange separation and alpha spectrometry	A
	Uranium 234, Uranium 238	CSS/CM/27 and CSS/OI/583 by alpha spectrometry	A
	Creatinine	CSS/CM/159 by colorimetry (Aquakem discrete analyser)	A
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES	Radiochemical Analysis	Documented In-House Procedure Nos	A
Stack filter papers	Gross alpha relative to ^{241}Am	CSS/OI/277 by Berthold LB770 Proportional Counter	A
	Gross beta relative to ^{137}Cs	CSS/OI/277 by Berthold LB770 Proportional Counter	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
POLLUTANTS AND EFFLUENTS: AQUEOUS	<u>Radiochemical Analysis</u>	Documented In-House Procedure Nos	A
	Gross alpha relative to ^{241}Am	CSS/CM/102, CSS/CM/134 and CSS/OI/281 by liquid scintillation counting	A
	Gross beta relative to ^{137}Cs	CSS/CM/102 and CSS/OI/279	A
	Gamma emitters (59 – 1836 keV)	CSS/CM/102 and CSS/OI/291 by gamma spectrometry	A
	Strontium-90	CSS/CM/102, CSS/CM/39 and CSS/OI/281 by Cerenkov counting	A
	Tritium	CSS/CM/102, CSS/CM/48, CSS/CM/47 and CSS/OI/281 by liquid scintillation counting	A
	<u>Chemical Analysis</u>		
	Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc	CSS/CM/102, CSS/CM/122, and CSS/OI/340 by ICP-MS	A
	Nitrate	CSS/CM/102 and CSS/CM/111 by ion chromatography	A
END			