Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

4012

Accredited to ISO/IEC 17025:2017

AWE Plc

Issue No: 020 **Issue date:** 26 March 2026

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SAMPLES CLEARANCE/DECOMMISIONING SAMPLES	Radiochemical Testing	Documented In-house methods:
Water, raw and trade effluents	Sample preparation	**MER-OPS-00325010** Preparation of water samples for Gross alpha/beta and Radiochemistry
Soils, sediments, sand, brick, concrete, plaster and dust (including tarmac dust), vegetation		**MER-OPS-00326003** Preparation of Soil, Sediment and Vegetation Samples for Gross alpha/beta and Radiochemistry (including weighing, drying, grinding, ashing and seiving of samples, as required)
		MER-OPS-00325595 Ashing and Furnace operations
Soils, sediments, vegetation	Aqueous Tritium Analysis	**MER-OPS-00324967** Analysis via liquid scintillation counting'

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SAMPLES CLEARANCE/DECOMMISIONING SAMPLES (cont'd)	Radiochemical Testing (cont'd) **Screening:**	Documented In-house methods:
Water, raw and trade effluents Soils, sediments, sand, brick, concrete, plaster, tarmac as dust, vegetation	Gross alpha activity (relative to ^{241}Am) Gross beta activity (relative to ^{137}Cs)	**AWE/MAS/RCG/EAT/GPC/QUAL/534** Gross Alpha/Beta QM Process Document **MER-OPS-00325015** Operation of Gross Alpha/Beta Counters **MER-OPS-00355823** Calibration of the Gross Alpha/Beta Counters By proportional counting
	Quantitative analysis:	
Water, raw and trade effluents Soils, sediments, sand, brick, concrete, plaster, tarmac as dust, vegetation Density range : 0.6 g/ml to 1.6 g/ml	Gamma Emitting radio-nuclides (Energy range: 59 keV - 1840 keV)	**MER-OPS-00369485** Validation and Process Document **MER-OPS-00366838** Operation of the BEGe Gamma Spectrometry System **MER-OPS-00369075** Procedure for the calibration of the BEGe gamma spectrometry system By high resolution gamma spectrometry
Water, raw and trade effluents and aqueous extracts	Tritium (^{3}H)	**AWE/MAS/RCG/EAT/LSC/QUAL/410** Tritium Determination QM Process Document **MER-OPS-00325038** Operation of the Liquid Scintillation Counter **MER-OPS-00355824** Calibration of the Liquid Scintillation Counter By liquid scintillation counting

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ENVIRONMENTAL SAMPLES CLEARANCE/DECOMMISIONING SAMPLES (cont'd) Waters and Effleunts Soils, sediments, sand, brick, concrete, plaster, tarmac as dust, vegetation	Radiochemical Testing (cont'd) **Quantitative analysis:** (cont'd) Uranium isotopes : ^{238}U, ^{235}U, ^{234}U Plutonium isotopes : $^{239+240}Pu$, ^{238}Pu	Documented In-house methods: **AWE/MAS/RCG/EAT/AS/QUAL/467** Radiochemistry QM Process Document **MER-OPS-00325557** Procedure for Operating the EMG Alpha Spectrometer **MER-OPS-00326945** Determination of actinides in environmental samples By alpha spectrometry
HUMAN URINE Urine MICRON SIZED PARTICULATE SAMPLES	Quantitative analysis: Tritium (^{3}H) Radiochemical Analysis Peak jumping measurement of Uranium isotope ratios (U^{234} to U^{238})	 **MER-OPS-00299442** Dosimetry Services Operating Procedure – Tritium in Urine **MER-OPS-00325038** Operation of the Liquid Scintillation Counters **MER-OPS-00355824** Calibration of the Liquid Scintillation Counters By liquid scintillation counting **MER-OPS-00048045** Documented in-house method using thermal ionisation mass spectrometry (TIMS)

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SOILS	<u>Chemistry Testing</u> <u>Explosives</u> Octahydro-1,3,5,7-tetranitro-1,3,5,7 tetrazocine (HMX) 2,4,6-Trinitrotoluene (TNT) Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) Pentaerythritol tetranitrate (PETN)	Documented in-house method AWE/GOEA/OP/185 using UHPLC-HRMS
NUCLEAR FORENSICS SAMPLES Samples with well-defined geometries (such as cylindrical symmetry) and known chemical composition.	Quantitative analysis of gamma emitters in the energy range 45keV – 1.8MeV Quantitative analysis of gamma emitters in the range 60 keV to 1,8 MeV in plutonium and uranium metals and oxides Isotopic composition of solid and liquid samples by sample-dependent calculation of relative detection efficiency	**AWE/NNSP/B/13/1988** MER-OPS-xxxxxxx Pu20 MER-OPS xxxxxxx Misc Documented in-house methods using HPGe gamma spectrometry MER-OPS-xxxxxxx Pu21 Documented in-house method using HPGe gamma spectrometry MER-OPS-000251184 Pu 41 Documented in-house method using HPGe gamma spectrometry
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