


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 2506</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Natural Environment Research Council - Centre for Ecology & Hydrology</h3> <p>Issue No: 017 Issue date: 12 April 2017</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 SAMPLES	<u>Chemical Analysis</u>	Documented In-House Methods:
Surface waters	<p>Metals:</p> <p>Aluminium (Al) Boron (B) Calcium (Ca) Iron (Fe) Magnesium (Mg) Manganese (Mn) Phosphorus (P) Potassium (K) Silicon (Si) Sodium (Na) Sulphur (S)</p> <p>Trace Metals:</p> <p>Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Caesium (Cs) Cerium (Ce) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lanthanum (La) Lead (Pb) Lithium (Li) Manganese (Mn) Molybdenum (Mo) Nickel (Ni) Praseodymium (Pr) Rubidium (Rb) Selenium (Se)</p>	<p>SOP 3104/SOP 3502 by ICP-OES</p> <p>SOP 3105/SOP 3504 by ICP-MS</p>



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ENVIRONMENTAL SAMPLES (cont'd)	<u>Chemical Analysis</u> (cont'd)	Documented In-House Methods:
Surface waters (cont'd)	Trace Metals (cont'd): Strontium (Sr) Titanium (Ti) Tungsten (W) Uranium (U) Vanadium (V) Zinc (Zn)	SOP 3105/SOP 3504 by ICP-MS
	pH/Conductivity	SOP3174 by automated combination electrode and conductivity meter
	Ammonium (NH ₄ -N)	SOP 3115b and SOP 3515 by Colorimeter
	Phosphate-Phosphorous (PO ₄ -P)	SOP 3115a/d/f and SOP 3515 by Colorimeter
	TON	SOP 3115c/e/f and SOP 3515 by Colorimeter
	Mercury	SOP 3133 by Cold Vapour Atomic Fluorescence Spectrometer
Surface waters	Chloride (Cl) Nitrate (NO ₃) Nitrite(NO ₂) Sulphate (SO ₄) Fluoride (F) Bromide (Br)	SOP 3149 by Ion Chromatography
Biota, Vegetation, Soils and Sediments	% Dry Loss on Ignition	SOP 3101 by gravimetry
Biota, Vegetation, Soils, Sediments and Particulates from Waters	Total Carbon (C) and Nitrogen (N)	SOP 3102 by Elemental Analyser
Biota, Vegetation and Soils	$\delta^{15}\text{N}$	SOP 2102/SOP 2501 and SOP 2104/SOP 2502 by Elemental Analyser and Isotope Ratio Mass Spectrometer
	$\delta^{13}\text{C}$	SOP 2101/SOP 2501 and SOP 2103/SOP 2502 by Elemental Analyser and Isotope Ratio Mass Spectrometer



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ENVIRONMENTAL SAMPLES (cont'd)	<u>Chemical analysis</u> (cont'd)	Documented In House methods
Carbon Dioxide (CO ₂) in air	$\delta^{13}\text{C}$	SOP 2105/SOP 2503 by Trace Gas Preconcentrator and Isotope Ratio Mass Spectrometer
Bee Hive and Bee Hive Products (e.g. Nectar, Honey, Beeswax, pollen)	Pesticides; Thiamethoxam Clothianidin	SOP 5103 by LC-MS-MS
Aqueous extracts from acid coated air samplers	Ammonium (NH ₄ -N)	SOP3176 by SEAL AA3 segmented flow analyser
END		