


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p>4150</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>ACS Environmental Testing Ltd</h3> <p>Issue No: 031    Issue date: 07 October 2022</p>	
	<p>Unit 14B Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE</p>	<p>Contact: Mrs C Heywood Tel: +44 (0)1202 628680 Fax: +44 (0)1202 628642 E-Mail: CelenaHeywood@acstesting.co.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
SOIL and GRANULAR WASTE	<p><u>Preparation for subsequent analysis by an ISO/IEC 17025 accredited laboratory</u></p> <p>WAC Leachate Preparation (2:1 and 8:1)</p> <p><u>Chemical Tests</u></p> <p>pH value</p> <p>BTEX: Benzene Ethylbenzene Toluene m/p-Xylene o-Xylene Total BTEX (sum of the 6 above)</p> <p>Loss on Ignition</p> <p>Total Organic Carbon (TOC)</p>	<p>Documented In-House Methods</p> <p>In-house procedures LP/ACSE/101 and LP/ACSE/102 based on BS EN 12457-3:2002</p> <p>In-house method MT/ACSE/301 based on BS 1377:3:1990 by pH meter</p> <p>In-house method MT/ACSE/101 by Headspace GC-FID using Ultrasonic Bath Extraction</p> <p>In-house method MT/ACSE/302 based on BS 1377:3:1990 by Gravimetry</p> <p>In-house method MT/ACSE/102 by NDIR carbon analyser</p>



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SOIL and GRANULAR WASTE (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Total Extractable Metals: Arsenic Cadmium Chromium Copper Lead Nickel Selenium Zinc</p> <p>Total Petroleum Hydrocarbons C<sub>10</sub>-C<sub>40</sub></p> <p>Mercury</p> <p>Polynuclear Aromatic Hydrocarbons (PAH's): - Naphthalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Benzo(a)anthracene - Chrysene - Benzo(b)fluoranthene - Benzo(k)fluoranthene - Benzo(a)pyrene - Indeno(1,2,3-c,d)pyrene - Dibenz(a,h)anthracene - Benzo(g,h,i)perylene Total PAH's (SUM of 16 Above)</p> <p>PCB Congeners: PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 Total PCBs (sum of the above)</p>	<p>Documented In-House Methods</p> <p>In-house method MT/ACSE/201 by ICP-OES</p> <p>In-house method MT/ACSE/105 by GC-FID</p> <p>In-house method MT/ACSE/202 by cold vapour AAS</p> <p>In-house method MT/ACSE/108 by GC-MS</p> <p>In-house method MT/ACSE/110 by GC-MS</p>



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AGGREGATES	Chemical Tests (Cont'd) Water-Soluble Sulphates  Total Sulphur  Acid Soluble Sulphates  Acid Soluble Sulphides	Documented In-House Methods  BS EN 1744-1:2009 + A1:2012 Tests for the Chemical Properties of Aggregates Clause 10.1  BS EN 1744-1:2009 + A1:2012 Tests for the Chemical Properties of Aggregates Clause 11.1  BS EN 1744-1:2009 + A1:2012 Tests for Chemical Properties of Aggregates Clause 12  BS EN 1744-1:2009 + A1 2012 Tests for Chemical Properties of Aggregates Clause 13



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SOIL	Chemical Tests  Total Extractable Metals: Arsenic Cadmium Chromium Copper Lead Nickel Selenium Zinc  Total Petroleum Hydrocarbons C10-C40  Mercury  Polynuclear Aromatic Hydrocarbons (PAH's): Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-c,d)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene  Total PAH's (Sum of 16 above)	Documented In-House Methods to Meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of soil  In-house method MT/ACSE/201 by ICP-OES  In-house method MT/ACSE/105 by GC-FID  In-house method MT/ACSE/202 by Cold vapour AAS  In-house method MT/ACSE/108 by GC-MS



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<b>SURFACE AND GROUND WATERS and LEACHATES</b>	<u>Chemical Tests</u>	Documented In-House Methods
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Ammonium Nitrogen	In-house method MT/ACSE/203 by spectrophotometry
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Anions: chloride fluoride nitrate phosphate sulphate nitrite	In-house method MT/ACSE/204 by Ion Chromatography using Dionex and Metrohm IC Systems
Laboratory Prepared Leachates	Anions: bromide	In-house method MT/ACSE/204 by Ion Chromatography using Dionex and Metrohm IC Systems
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Electrical conductivity	In-house method MT/ACSE/303 by Conductivity Meter
Ground Waters, Surface Waters and Laboratory Prepared Leachates	pH value	In-house method MT/ACSE/301 by pH meter
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Metals: Antimony Arsenic Barium Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Zinc	In-house method MT/ACSE/205 by ICP-OES
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Total Dissolved Solids	Test Procedure MT/ACSE/304
Laboratory Prepared Leachates, Ground Waters, Borehole Waters	Mercury	In-house method MT/ACSE/202 by cold vapour AAS
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Total Suspended Solids	In-house method MT/ACSE/305 by gravimetry
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Biochemical Oxygen Demand	In-house method MT/ACSE/306 by DO meter



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<p>SURFACE AND GROUND WATERS and LEACHATES (cont'd)</p> <p>Ground Waters, Surface Waters and Laboratory Prepared Leachates</p> <p>Ground Waters, Surface Waters and Laboratory Prepared Leachates</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Chemical Oxygen Demand</p> <p>Total organic carbon (TOC) and Dissolved Organic Carbon (DOC)</p>	<p>Documented In-House Methods</p> <p>In-house method MT/ACSE/307 by spectrophotometry</p> <p>In-house method MT/ACSE/103 by NDIR carbon analyser</p>
END		