


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>ACS Environmental Testing Ltd</h3> <p>Issue No: 018 Issue date: 04 October 2016</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
SOIL and GRANULAR WASTE	<u>Chemical Tests</u>	Documented In-House Methods based on National Grid Property Holdings document "Methods for the Collection and Analysis of Samples from National Grid Sites - 2007"
	pH value	Test Procedure BS 1377:3:1990 by pH meter
	BTEX: Benzene Ethylbenzene Toluene m/p-Xylene o-Xylene	Test Procedure MT/ACSE/101 by Headspace GC-FID
	Loss on Ignition	Test Procedure BS 1377:3:1990 by Furnace (MT/ACSE/302)
	WAC Leachate Preparation	BS EN 12457-3:2002 (Test Procedure LP/ACSE/101)
	Total Organic Carbon (TOC)	Test Method MT/ACSE/102 using a HACH- LANGE Carbon analyser
	PCB Congeners: PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	In-house test method MT/ACSE/104 by GC-ECD



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SOIL	<p><u>Chemical Tests</u></p> <p>Total Extractable Metals: Arsenic Cadmium Chromium - total Copper Lead Nickel Selenium Zinc</p> <p>Total Petroleum Hydrocarbons C₁₀-C₄₀</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>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - soils</p> <p>Test Procedure MT/ACSE/201 by ICP-OES</p> <p>Test Procedure MT/ACSE/105 by GC-FID</p> <p>Test Procedure MT/ACSE/202 by cold vapour AAS</p> <p>Test Procedure MT/ACSE/106 by GC-MS</p>



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SURFACE AND GROUND WATERS and LEACHATES	<u>Chemical Tests</u>	Documented In-House Methods based on National Grid Property Holdings document "Methods for the Collection and Analysis of Samples from National Grid Sites - 2007" when applied to leachates from BS EN 12457-3
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Ammonium	Test Procedure MT/ACSE/203 by spectrophotometry
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Anions: chloride fluoride nitrate nitrite phosphate sulphate	Test Procedure MT/ACSE/204 by Ion Chromatography
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Electrical conductivity	Test Procedure MT/ACSE/303 by Conductivity Meter
Ground Waters, Surface Waters and Laboratory Prepared Leachates	pH value	Test Procedure MT/ACSE/301 by pH meter
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Metals: Antimony Arsenic Barium Cadmium Chromium (total) Copper Lead Molybdenum Nickel Selenium Zinc	Test Procedure 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	Test Procedure MT/ACSE/202 by cold vapour AAS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SURFACE AND GROUND WATERS and LEACHATES (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on National Grid Property Holdings document "Methods for the Collection and Analysis of Samples from National Grid Sites - 2007" when applied to leachates from BS EN 12457-3 (cont'd)
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Total Suspended Solids	Test Procedure MT/ACSE/305 by gravimetry
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Biochemical Oxygen Demand	Test Procedure MT/ACSE/306 by DO meter
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Chemical Oxygen Demand	Test Procedure MT/ACSE/307 by spectrophotometry
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Total organic carbon (0-1000mg/l)	Test method MT/ACSE/103 using a HACH-LANGE Carbon analyser
Ground Waters, Surface Waters and Laboratory Prepared Leachates	Phenols: Phenol Cresols Xylenols & Ethylphenols Trimethylphenols	Test Procedure MT/ACSE/107 by HPLC, ECD
Laboratory Prepared Leachates, Ground Waters	Phenols: Phenol m-Cresol 2,3 Dimethylphenol 2,3,5 Trimethylphenol	Extraction by in-house method LP/ACSE/103 followed by in-house test method MT/ACSE/107 by HPLC, ECD
	END	