


# Schedule of Accreditation

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p>2531</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>Chemtech Environmental Limited</b></p> <p>Issue No: 055 Issue date: 14 August 2024</p>	
	<p>Unit 6 Parkhead Greencroft Industrial Park Stanley County Durham DH9 7YB</p>	<p>Contact: Mr Stephen Dovenor Tel: +44 (0)120 752 8578 Fax: +44 (0)120 758 1582 E-Mail: <a href="mailto:stephendovenor@chemtech-env.co.uk">stephendovenor@chemtech-env.co.uk</a> Website: <a href="http://www.chemtech-env.co.uk">www.chemtech-env.co.uk</a></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
SOILS	<p><u>Chemical Tests</u></p> <p>Loss on ignition at 440°C</p> <p>pH value</p> <p>Acid soluble sulphate</p> <p>Water soluble sulphate (2:1)</p> <p>Anions (chloride, nitrate sulphate,)</p> <p>Water soluble boron</p> <p>Electrical conductivity</p> <p>Thiocyanate</p> <p>BTEX :</p> <p>Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene</p>	<p>Documented In-House Methods based on BS 1377:Part 3:1990</p> <p>Method CE006</p> <p>Method CE004</p> <p>Method CE062 by ICP-OES</p> <p>Method CE061 by ICP-OES</p> <p>Method CE193 2:1 Water soluble anions by Ion Chromatography</p> <p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:</p> <p>Method CE063 by ICP-OES</p> <p>Method CE007 (ISBN 011 751428 4)</p> <p>Method CE145 (ISBN 011 751934 X)</p> <p>Method CE 267 using headspace GC-FID</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p><u>Extractable Petroleum Hydrocarbons (EPH) in the range, with banding</u></p> <p>&gt;C10-C40 &gt;C10-C44 &gt;C10-C12 &gt;C10-C20 &gt;C10-C21 &gt;C10-C25 &gt;C10-C28 &gt;C12-C16 &gt;C16-C21 &gt;C16-C35 &gt;C20-C40 &gt;C21-C35 &gt;C21-C40 &gt;C25-C40 &gt;C28-C40 &gt;C35-C40 &gt;C35-C44 DRO (&gt;C10-C25) MRO (&gt;C25-C40)</p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:</p> <p>Method CE033 by GC-FID</p>



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SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Polyaromatic Hydrocarbons Naphthalene, Acenaphthylene Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene Pyrene Chrysene, Benzo(a)anthracene, Benzo(k)fluoranthene, Benzo(b)fluoranthene Benzo(a)pyrene, Indeno(1,2,3,c,d)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene</p> <p>Elemental Sulphur</p> <p>pH</p> <p>Acid soluble sulphate</p> <p>Water soluble sulphate (2:1)</p> <p>Anions: Chloride Sulphate Total oxidised nitrogen Nitrite Nitrate (by calculation)</p> <p>Ammonia-N (as NH<sub>3</sub> and as NH<sub>4</sub> by calculation)</p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:</p> <p>Method CE087 by GCMS</p> <p>Method CE034 by HPLC</p> <p>Method CE004</p> <p>Method CE062 by ICP-OES</p> <p>Method CE061 by ICP-OES</p> <p>Method CE261 by discrete analyser</p> <p>Method CE262 by discrete analyser</p>



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)  Metals Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Tin Vanadium Zinc	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:  Method CE 264 by ICP-OES



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SOILS	<p><u>Chemical Tests</u> (cont'd)</p> <p>pH</p> <p>Acid soluble sulphate</p> <p>Water soluble sulphate (2:1)</p> <p>Thiocyanate</p> <p>Polyaromatic Hydrocarbons Naphthalene Acenaphthylene Acenaphthene Phenanthrene Fluoranthene Pyrene Chrysene Benzo(k)fluoranthene Benzo(b)fluoranthene Indeno(1,2,3,c,d)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene</p> <p>Polychlorinated biphenyls (PCB) PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 Total PCBs (7 Congeners)</p>	<p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil</p> <p>Method CE004</p> <p>Method CE062 by ICP-OES</p> <p>Method CE061 by ICP-OES</p> <p>Method CE145 by Colorimetry</p> <p>Method CE087 by GCMS</p> <p>Method CE137 by GCMS</p>



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SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p>Extractable Petroleum Hydrocarbons (EPH) in the range, with banding</p> <p>&gt;C10-C40 &gt;C10-C44 &gt;C10-C12 &gt;C10-C20 &gt;C10-C21 &gt;C10-C25 &gt;C10-C28 &gt;C12-C16 &gt;C16-C21 &gt;C16-C35 &gt;C20-C40 &gt;C21-C35 &gt;C21-C40 &gt;C25-C40 &gt;C28-C40 DRO (&gt;C10-C25) MRO (&gt;C25-C40)</p> <p>Elemental Sulphur</p> <p><u>Metals</u> Arsenic Beryllium Cadmium Cobalt Copper Nickel Zinc</p>	<p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil</p> <p>Method CE033 by GC-FID</p> <p>Method CE034 by HPLC</p> <p>Method CE 264 by ICP-OES</p>



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<p><b>WATERS</b></p> <p>Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent</p> <p>Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent</p> <p>Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent</p> <p>Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent</p> <p>Surface water, landfill leachate and industrial effluent</p> <p>Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent</p>	<p><u>Chemical Tests</u></p> <p>pH value</p> <p>Ammonia</p> <p>Electrical conductivity</p> <p>Alkalinity</p> <p>Chemical Oxygen Demand (Total, Settled, Filtered)</p> <p>BTEX and MTBE Benzene Toluene Ethylbenzene m&amp;p-Xylene o-Xylene MTBE 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene</p>	<p>Method CE213</p> <p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:</p> <p>Method CE012 by Colorimetry (ISBN 011 751613 9)</p> <p>Method CE214 (ISBN 011 751428 4)</p> <p>Method CE 035 (ISBN 011 751601 5)</p> <p>Method CE037 (ISBN 011 751915 4)</p> <p>Method CE266 by HS GC-FID</p>



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on BS 1377:Part 3:1990
Groundwater, surface water, leachate from landfill, effluent	Suspended solids	Method CE 038 (ISBN011 751957 X)
Groundwater, surface water, leachate from landfill	Chromium (hexavalent)	Method CE050 by Colorimetry
Groundwater, leachate prepared from soil, effluent	Anions (fluoride, chloride, bromide, nitrite, nitrate, sulphate, phosphate)	Method CE049 by Ion Chromatography
Groundwater, surface water	Thiocyanate	Method CE014 by Colorimetry (ISBN 011 751934 X)
Groundwater, Surface water, Prepared leachates, Landfill leachates and Effluent	Dissolved metals See Appendix 1 for the list of Metals and matrices covered	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:  Method CE 265 by ICP-MS
	Chloride Fluoride Sulphate Phosphate Total Oxidised Nitrogen Nitrite Nitrate (by calculation) Ammonia-N (as NH <sub>3</sub> and NH <sub>4</sub> by calculation) Chromium VI Alkalinity	Methods CE 257, 258, 259 and 260 by discrete analyser
	See Appendix 2 for the list of Determinands, Method Codes and Matrices covered	
END		





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**Appendix 1**

Scope of Metals in Groundwater, Surface water, Prepared leachates, Landfill leachates and Effluent determined by Method CE 265 by ICP-MS

Metal	Ground water	Surface water	Prepared leachates	Landfill leachates	Effluent
Aluminium	N	Y	N	N	N
Arsenic	Y	Y	Y	N	Y
Barium	Y	Y	Y	N	Y
Cadmium	Y	Y	Y	N	Y
Chromium	Y	Y	Y	N	Y
Cobalt	Y	Y	Y	Y	Y
Copper	Y	Y	Y	N	Y
Iron	Y	Y	N	N	N
Lead	Y	Y	Y	N	Y
Magnesium	Y	Y	Y	Y	Y
Manganese	Y	Y	Y	N	Y
Nickel	Y	Y	Y	Y	Y
Potassium	Y	Y	Y	Y	N
Selenium	Y	Y	Y	N	Y
Sodium	Y	N	Y	N	N
Strontium	Y	Y	Y	N	N
Sulphur	Y	Y	Y	Y	N
Titanium	Y	Y	Y	Y	Y
Vanadium	Y	Y	Y	N	Y
Zinc	Y	Y	Y	N	Y



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**Appendix 2**

Scope of determinands in Groundwater, Surface water, Prepared leachates, Landfill leachates and Effluent determined by Methods CE 257, 258, 259 and 260 by discrete analyser

Anion	In house method	Ground Water	Surface Water	Effluent	Prepared Leachate	Landfill leachate
Chloride	CE257	Y	Y	Y	Y	Y
Fluoride	CE257	Y	Y	Y	Y	Y
Sulphate	CE257	Y	N	Y	Y	Y
Phosphate	CE257	Y	Y	Y	Y	N
Total Oxidised Nitrogen	CE257	Y	Y	Y	Y	Y
Nitrite	CE257	Y	Y	Y	Y	Y
Nitrate (by calculation)	CE257	Y	Y	Y	Y	Y
Ammonia-N (as NH3 and as NH4 by calculation)	CE258	Y	Y	Y	Y	Y
Chromium VI	CE259	Y	Y	Y	Y	Y
Alkalinity	CE260	Y	Y	N	Y	N