


Schedule of Accreditation

United Kingdom Accreditation Service

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

 <p>2531</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Chemtech Environmental Limited</p> <p>Issue No: 051 Issue date: 11 October 2023</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
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>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 ISO 11466 and Blue Book Methods for the Examination of Waters and Associated Materials</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	<u>Chemical Tests</u> (cont'd) Water soluble boron Electrical conductivity Thiocyanate BTEX and MTBE: Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene MTBE	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows: Method CE063 by ICP-OES Method CE007 (ISBN 011 751428 4) Method CE145 (ISBN 011 751934 X) Method CE192 by GC-FID
SOILS	<u>Extractable Petroleum Hydrocarbons (EPH) in the range, with banding</u> >C10-C40 >C10-C44 >C10-C12 >C10-C20 >C10-C21 >C10-C25 >C10-C28 >C12-C16 >C16-C21 >C16-C35 >C20-C40 >C21-C35 >C21-C40 >C25-C40 >C28-C40 >C35-C40 >C35-C44 DRO (>C10-C25) MRO (>C25-C40)	Method CE033 by GC-FID



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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 NH₃ and as NH₄ 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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	<u>Chemical Tests</u> (cont'd) Metals Arsenic Barium Beryllium Calcium Cadmium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Sodium Tin Titanium 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 (cont'd)	<u>Chemical Tests (cont'd)</u> pH Acid soluble sulphate Water soluble sulphate (2:1) Thiocyanate 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	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil Method CE004 Method CE062 by ICP-OES Method CE061 by ICP-OES Method CE145 by Colorimetry Method CE087 by GCMS



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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>>C10-C40 >C10-C44 >C10-C12 >C10-C20 >C10-C21 >C10-C25 >C10-C28 >C12-C16 >C16-C21 >C16-C35 >C20-C40 >C21-C35 >C21-C40 >C25-C40 >C28-C40</p> <p>DRO (>C10-C25) MRO (>C25-C40)</p> <p>Elemental Sulphur</p> <p><u>Metals</u> Arsenic Beryllium Calcium Cadmium Cobalt Copper Iron 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>Methos CE 264 by ICP-OES</p>



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WATERS	<u>Chemical Tests</u>	Documented In-House Methods based on BS 1377:Part 3:1990
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	pH value	Method CE213
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Ammonia	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows: Method CE012 by Colorimetry (ISBN 011 751613 9)
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Electrical conductivity	Method CE214 (ISBN 011 751428 4)
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Alkalinity	Method CE 035 (ISBN 011 751601 5)
Surface water, landfill leachate and industrial effluent	Chemical Oxygen Demand (Total, Settled, Filtered)	Method CE037 (ISBN 011 751915 4)
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	BTEX and MTBE: Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene MTBE	Method CE057 by GC-FID
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)



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<p>WATERS (cont'd)</p> <p>Groundwater, Surface water, Landfill leachate, Leachate prepared from soils, Effluent</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Filtered Metals: Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Cobalt Chromium Copper Iron Mercury Manganese Molybdenum Nickel Lead Selenium Strontium Tin Vanadium Zinc Calcium Magnesium Phosphorus Potassium Sulphur Sodium</p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:</p> <p>Method CE128 by ICPMS</p>



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Groundwater, Surface water, Prepared leachates, Landfill leachates and Effluent	Dissolved metals See Appendix 1 for the list of Metals and matrices covered Chloride Fluoride Sulphate Phosphate Total Oxidised Nitrogen Nitrite Nitrate (by calculation) Ammonia-N (as NH ₃ and NH ₄ by calculation) Chromium VI Alkalinity See Appendix 2 for the list of Determinands, Method Codes and Matrices covered	Method CE 265 by ICP-MS Methods CE 257, 258, 259 and 260 by discrete analyser

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	Y	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 NH ₃ and as NH ₄ by calculation)	CE258	Y	Y	Y	Y	Y
Chromium VI	CE259	Y	Y	Y	Y	Y
Alkalinity	CE260	Y	Y	N	Y	N