


Schedule of Accreditation

United Kingdom Accreditation Service

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

 2531 Accredited to ISO/IEC 17025:2017	Chemtech Environmental Limited Issue No: 057 Issue date: 17 April 2025	
	Unit 6 Parkhead Greencroft Industrial Park Stanley County Durham DH9 7YB	Contact: Ms E Carter Tel: +44 (0)120 752 8578 Fax: +44 (0)120 758 1582 E-Mail: elizabeth.carter@cawoodscientific.uk.com Website: www.chemtech-env.co.uk
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	<u>Chemical Tests</u>	Documented In-House Methods based on BS 1377:Part 3:1990
	Loss on ignition at 440°C	Method CE006
	pH value	Method CE004
	Acid soluble sulphate	Method CE062 by ICP-OES
	Water soluble sulphate (2:1)	Method CE061 by ICP-OES
	Anions (chloride, nitrate sulphate,)	Method CE193 2:1 Water soluble anions by Ion Chromatography
	Water soluble boron	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows: Method CE063 by ICP-OES
	Electrical conductivity	Method CE007 (ISBN 011 751428 4)
	Thiocyanate	Method CE145 (ISBN 011 751934 X)
	BTEX : Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene	Method CE 267 using headspeace GC-FID



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

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>>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)</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>



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

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>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>



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

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 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



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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>



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

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>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 DRO (>C10-C25) MRO (>C25-C40)</p> <p>Elemental Sulphur</p> <p>Metals: Arsenic Beryllium Cadmium Cobalt Copper Nickel Zinc</p> <p>Total Organic Carbon</p> <p>Total Carbon Total Nitrogen</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> <p>Method CE197 using PRIMAC instrument</p> <p>Method CE198 using PRIMAC instrument</p>



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS	<u>Chemical Tests</u>	
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	pH value	Method CE213
		Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Ammonia	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 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	Method CE266 by HS GC-FID



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:
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, leachate from landfill, leachate prepared from soil, effluent	Total Organic Carbon Dissolved Organic Carbon	Method CE247 using Formacs instrument
Groundwater, Surface water, Prepared leachates, Landfill leachates and Effluent	Dissolved metals See Appendix 1 for the list of Metals and matrices covered	Method CE 265 by ICP-MS
	Chloride Fluoride Sulphate Phosphate Total Oxidised Nitrogen Nitrite Nitrate (by calculation) Ammonia-N (as NH ₃ and NH ₄ 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		



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

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



2531
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chemtech Environmental Limited

Issue No: 057 Issue date: 17 April 2025

Testing performed at main address only

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 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