


Schedule of Accreditation

United Kingdom Accreditation Service

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

 2531 Accredited to ISO/IEC 17025:2005	Chemtech Environmental Limited Issue No: 038 Issue date: 23 October 2018	
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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> Loss on ignition at 440°C pH value Acid soluble sulphate Water soluble sulphate (2:1) Anions (chloride, nitrate sulphate,) Metals: Metals Mercury Arsenic Beryllium Cadmium Antimony Selenium Barium Cobalt Chromium Copper Molybdenum Nickel Lead Tin Vanadium Zinc	Documented In-House Methods based on BS 1377:Part 3:1990 Method No CE 006 Method No CE 004 Method CE 062 using ICP-OES Method CE 061 using ICP-OES Method No CE 049 2:1 Water soluble anions by Ion Chromatography Documented In-House Methods based on ISO 11466 and Blue Book Methods for the Examination of Waters and Associated Materials In House Method CE127 by ICPMS



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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: In house method CE063 by ICP-OES Method No CE 007 (ISBN 011 751428 4) Method No CE 145 (ISBN 011 751934 X) Method CE057 by GC-FID
SOILS	Total Organic Carbon Organic Matter Content by calculation <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	Documented In-House Method CE072 using Eltra carbon analyser Documented in house method CE033 using GC-FID



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SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> 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	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows: Documented in house method CE087 USING GCMS detection
SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> PolyChlorinated Biphenyl Congeners: PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB Total of ICES 7 Elemental Sulphur	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows: Documented in house method CE137 using GCMS detection In house method CE034 using HPLC



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SOILS	<u>Chemical Tests</u> pH Acid soluble sulphate Water soluble sulphate (2:1) Thiocyanate Total Organic Carbon Organic Matter Content by calculation	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil Method CE 004 Method CE 062 using ICP-OES Method CE 061 using ICP-OES Method CE 145 Documented In-House Method CE072 using Eltra carbon analyser



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p>Metals Mercury Arsenic Cadmium Selenium Barium Cobalt Chromium Copper Molybdenum Nickel Lead Tin Vanadium Zinc</p> <p>Water Soluble Boron</p> <p>Polyaromatic Hydrocarbons</p> <p>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>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil</p> <p>In House Method CE127 by ICPMS</p> <p>In house method CE063 by ICP-OES</p> <p>Documented in house method CE087 using GCMS detection</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></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</p> <p>PolyChlorinated Biphenyl Congeners: PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB Total of ICES 7</p> <p>Elemental Sulphur</p>	<p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil</p> <p>Documented in house method CE033 using GC-FID</p> <p>Documented in house method CE137 using GCMS detection</p> <p>In house method CE034 using HPLC</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>WATERS</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><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>Documented In-House Methods based on BS 1377:Part 3:1990</p> <p>Method No CE 004</p> <p>Method No CE 012 by Colorimetry</p> <p>Method No CE 007 (ISBN 011 751428 4)</p> <p>Method No CE 035 (ISBN 011 751601 5)</p> <p>Documented In house method CE037</p>



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<p>WATERS</p> <p>Groundwater, Surface water, Landfill leachate, Leachate prepared from soils, Effluent</p>	<p><u>Chemical Tests</u></p> <p>Filtered Metals:</p> <p>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>Documented In house method CE128 by ICPMS</p>
<p>Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent</p>	<p>BTEX and MTBE: Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene MTBE</p>	<p>Method CE057 by GC-FID</p>
<p>Groundwater, surface water, leachate from landfill, effluent</p>	<p>Suspended solids</p>	<p>Method No CE 038 (ISBN011 751957 X)</p>



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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	Chromium (hexavalent)	Method No CE 050 by Colorimetry
Groundwater, leachate prepared from soil, effluent	Anions (fluoride, chloride, bromide, nitrite, nitrate, sulphate, phosphate)	Method No CE 049 by Ion Chromatography
Groundwater, surface water	Thiocyanate	Method No CE 014 (ISBN 011 751934 X)
Groundwater, surface water, effluent, landfill leachate and prepared leachate	Total Organic Carbon Dissolved Organic Carbon (as non purgeable organic carbon)	Method No CE071 by TOC analyser
END		