Schedule of Accreditation

issued by

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: 064 **Issue date:** 06 August 2026

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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Unit 6 Parkhead Greencroft Industrial Park Stanley County Durham DH9 7YB	**Local contact** Elizabeth Carter Tel: +44 (0)120 752 8578 E-Mail: elizabethcarter@chemtech-env.co.uk	**Testing:** Environmental Testing **Support Functions:** Quality System Quality Audit administration	A
Address Unit 1A.2(A) North Road Marchwood Industrial Park Marchwood Southampton SO40 4BL	**Local contact** Elizabeth Carter Tel: +44 (0)120 752 8578 E-Mail: elizabethcarter@chemtech-env.co.uk	**Testing:** Environmental Testing Waste (SRF/RDF) Testing Biofuel Testing	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS	Chemical Tests	Documented In-House Methods based on BS 1377:Part 3:2018	
	Loss on ignition at 440°C	Method CE006	A
	pH value	Method CE004	A
	Acid soluble sulphate	Method CE062 by ICP-OES	A
	Water soluble sulphate (2:1)	Method CE061 by ICP-OES	A
		Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN as follows:	
	Electrical conductivity	Method CE007 (ISBN 011 751428 4)	A
	Thiocyanate	Method CE145 (ISBN 011 751934 X)	A
		Documented In-House Methods:	
	Water Soluble Boron	Method CE063 by ICP-OES	A
	BTEX: Benzene Toluene Ethylbenzene (m+p)-Xylene o-Xylene	Method CE267 using headspace GC-FID	A
	Polychlorinated biphenyls (PCB): PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 Total PCBs (7 Congeners)	CE137 by GCMS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:	
	Extractable Petroleum Hydrocarbons (EPH) in the range, with banding: >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	A
	Extractable Petroleum Hydrocarbons including Aliphatic and Aromatic banding (TPH-CWG) Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Aliphatic >C35-C40 Total Aliphatic >C10-C40 Aromatic >eC12-eC16 Aromatic >eC16-eC21 Total Aromatic >eC10-eC40 Total TPH >C10-C40	Method CE286 by SPE and GC-FID	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:	
	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	Method CE087 by GCMS	A
	Elemental Sulphur	Method CE034 by HPLC	A
	Anions: Chloride Sulphate Total oxidised nitrogen Nitrite Nitrate (by calculation)	Method CE261 by discrete analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:	
	Metals: Arsenic Antimony Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Potassium Sodium Selenium Thallium Tin Vanadium Zinc	Method CE264 by ICP-OES	A
	Total Organic Carbon	Method CE197 using PRIMAC instrument	A
	Total Carbon Total Nitrogen	Method CE198 using PRIMAC instrument	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil	
	pH	Method CE004	A
	Acid soluble sulphate	Method CE062 by ICP-OES	A
	Water soluble sulphate (2:1)	Method CE061 by ICP-OES	A
	Thiocyanate	Method CE145 by Colorimetry	A
	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	Method CE087 by GCMS	A
	Polychlorinated biphenyls (PCB): PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 Total PCBs (7 Congeners)	Method CE137 by GCMS	A
	Extractable Petroleum Hydrocarbons – Aliphatic Banding Aliphatic >C12-C16 Aliphatic >C16-C21 Aliphatic >C21-C35 Aliphatic >C35-C40 Total Aliphatic >C10-C40	Method CE286 by SPE and GC-FID	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil	
	Extractable Petroleum Hydrocarbons (EPH) in the range, with banding >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)	Method CE033 by GC-FID	A
	Elemental Sulphur	Method CE034 by HPLC	A
	Metals: Arsenic Barium Beryllium Cadmium Calcium Cobalt Copper Lead Manganese Mercury Molybdenum Nickel Selenium Tin Vanadium Zinc	Method CE264 by ICP-OES	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing of soil	
	Total Organic Carbon	Method CE197 using PRIMAC instrument	A
	Total Carbon Total Nitrogen	Method CE198 using PRIMAC instrument	A
WATERS		Documented In-House Methods based on BS 1377:Part 3:2018	
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	pH value	Method CE213	A
		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	Electrical conductivity	Method CE214 (ISBN 011 751428 4)	A
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Alkalinity	Method CE035 (ISBN 011 751601 5)	A
Surface water, landfill leachate and effluent	Chemical Oxygen Demand (Total, Settled, Filtered)	Method CE037 (ISBN 011 751915 4)	A
Groundwater, surface water, leachate from landfill, effluent	Suspended solids	Method CE038 (ISBN 011 751957 X)	A
Groundwater, surface water	Thiocyanate	Method CE014 by Colorimetry (ISBN 011 751934 X)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (cont'd)	Documented In-House Methods:	
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	A
Groundwater, surface water, leachate from landfill, leachate prepared from soil, effluent	Total Organic Carbon Dissolved Organic Carbon	Method CE247 using Formacs instrument	A
Groundwater, Surface water, Prepared leachates, Landfill leachates and Effluent	Dissolved metals See Appendix 1 for the list of Metals and matrices covered	Method CE265 by ICP-MS	A
	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	Methods CE257, 258, 259 and 260 by discrete analyser	A
Surface water and Prepared leachates	Alkalinity	Method CE281 by Autotitration	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Chemical Tests (cont'd)	Documented In-House Methods:	
Fish Oil	Arsenic, Cadmium, Mercury, Lead	Method WI-3050 by ICP-MS/MS	B
Fats and oils	Arsenic, Cadmium, Mercury, Lead	Method WI-3050 by ICP-MS/MS	B
Inorganic compounds used as ingredients in animal feeds and food	Arsenic, Cadmium, Mercury, Lead	Method WI-3050 by ICP-MS/MS	B
Inorganic compounds used as ingredients in animal feeds and food	Copper, Iron, Manganese, Zinc	Method WI 3052 by ICP-OES	B
WATERS	Chemical Tests		
Natural waters & sea waters	AOX	Method 3023 by CL10-AOX analyser	B
FUELS	Chemical and Physical Tests	Documented In-House Methods based on the following national, international and other recognised standards	
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Moisture	Documented in house method 3013 by Gravimetry based on BS EN 15414-3:2011	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Ash Content including loss on ignition	Documented in house method 3014 by Gravimetry based on BS EN 15403:2011	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Calorific Value (Gross Calorific Value)	Documented in house method 3015 by Bomb Calorimetry based on BS EN 15400:2011	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Net Calorific Value	By Calculation	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Oxygen	By Calculation	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FUELS (cont'd)	Chemical and Physical Tests (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards	
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Sulphur, Chlorine, Fluorine, Bromine	Documented in house method 3021 by Ion Chromatography (following bomb calorimetry) based on BS EN 15408:2011	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Carbon, Hydrogen and Nitrogen	Documented in house method 3024 by Elemental Analyser based on BS EN 15407:2011	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Copper, Lead, Nickel and Zinc	Documented in house method MW 003 WI by ICP OES based on BS EN 15411:2011	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Volatile Matter	Documented in house method 3027 by Gravimetry based on BS EN 15402:2011	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Biomass Content	Documented in house method 3009 by Dissolution, Gravimetry and Calculation based on BS EN ISO 21644:2021	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Biomass/Non-Biomass Content by CV	By Calculation	B
Solid Recovered Fuels (SRF) Refuse Derived Fuel (RDF)	Biomass/Non-Biomass Content by total C	By Calculation	B
Solid Biofuels (Biomass)	Moisture	Documented in house method 3013 by Gravimetry based on BS EN 18134-3:2015	B
Solid Biofuels (Biomass)	Ash Content including loss on ignition	Documented in house method 3014 by Gravimetry based on ISO 18122:2015	B
Solid Biofuels (Biomass)	Calorific Value (Gross Calorific Value)	Documented in house method 3015 by Bomb Calorimetry based on BS EN 18125:2017	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FUELS (cont'd)	Chemical and Physical Tests (cont'd)	Documented In-House Methods based on the following national, international and other recognised standards	
Solid Biofuels (Biomass)	Net Calorific Value	By Calculation	B
Solid Biofuels (Biomass)	Oxygen	By Calculation	B
Solid Biofuels (Biomass)	Sulphur, Chlorine	Documented in house method 3021 by Ion Chromatography (following bomb calorimetry) based on EN 16994:2016	B
Solid Biofuels (Biomass)	Carbon, Hydrogen and Nitrogen	Documented in house method 3024 by Elemental Analyser based on ISO 16948:2015 (Hot Block – Aqua Regia Digest)	B
Solid Biofuels (Biomass)	Copper, Lead, Nickel and Zinc	Documented in house method MW 003 WI by ICP OES based on BS EN 16968:2015	B
Solid Biofuels (Biomass)	Volatile Matter	Documented in house method 3027 by Gravimetry based on BS EN 15148:2009	B
WASTE	Chemical and Physical Tests		
RECYCLED WASTE Trommel Fines	Loss on Ignition at 440°C	Documented in house method 3025 by Gravimetry in accordance with HMRC Excise Notice LFT1 27 March 2015	B
Incinerator Bottom Ash Fly Ash	Copper, Lead, Nickel and Zinc	Documented in house method MW 003 WI by ICP OES based on BS EN 15411:2011 (Hot Block – Aqua Regia Digest) and BS EN 16968:2015	B
END			

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

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
Low Range Sulphate	CE257	Y	Y	N	N	N
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